Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, State and Prospects of the Crops in the different Districts of Bengal, as reported to Government during the week ending the 12th July 1878.

-			_					
1	lo.	District,		Date of Peturn from such dietriet			State and prospects of the crops at date,	Remark
BR!	NGAI	la.						
		Wastern District	d.	1873.				
	1 2	Burdwan Bancoorah	***	July 1866* 12th	4·1 1·16	Weather I. it Partial showers provided during the work.	Ans and amon crops reviving All doing well up to date, but some heavy rain is now re- quired to allow of the seed- lings being generally plant-	A few onnes of the- lors at hand-quar-
BURDWAN DIPUSION.	8	Bearbhaon		" 12th	256	More or less rain has fallen every day. Heavy full on the night of the 13th. The rainfull to the cust of the district seems to have been lighter than elsowhere.	transplanting are in pro- grees. Up to 10th the easterly parts wanted more	
SUL	4	Midnapore	***	" 12tb	2·1	Hot and cloudy, with oc- casional thunderstorms and heavy showers of rain.		radio cholera.
į	5	Hooghly	10.1	" 12th	1.88	Clear and cloudy, occa- monal heavy showers.	Aus slightly injured by the drought, but the remainder growing well.	
		Howtah	4.6.4	12th	2-75	Rain more or less daily, except at Ampta, Rag- nan, and Shampore, where it rained on 8 days only.	The rain has done much good to the dhan crops. The supercane, though revived by the rain, is not expected to tern out so well as usual. The jute plants are some-	
1		Central District	# ₁				what stanted in growth.	
Division.	D	24-Pergunnaha		, 15th	1.51	Warm, with occasional showers.	Juie, sugareane, and any crops promise well, but more rain is required for the oultiva- tion of sauce.	of hunkli-nor me-
Pariments Division.	7	Nuddan	427	, 12th	8:77	ebow that rain has fallen, 2.81 fell at Krishnaghur on the	proved. If the weather remains favorable, fair crops	
۱ ۳	. 8	Joseph	***	, 12th	2:37	frequent showers; wind		
1	9	Monthedahad	***	., 12th	0.59	usually from south-east. There has been more rain, but not sufficient. The weather is close and damp.	The crops are backward, but progressing. The fields are	
Калкнату Вуункол,	10	Dinagepore	4.4	, 12th	2-65	Hot, damp, and showery	Bain is still much wanted throughout the district. There were partial showers of heavy rain here and there, but nothing like a general downpour.	
KAISEAL	11	Maidalı	***	,, 12th	1.67	Claudy; slight cain almost daily, but weather warm and sultry.	The rain that has fallen has benefited the bhadel and aman dhan, but more is needed. From some parts of the district damage to the crops by the late flight of locuits is reported, but	From Jet January to 18th July 1872 28 at Divis, 1873 838
	19	Rajakahye	100	., 12th	1:22	Constantly gathering clouds as for rain, but only occasional local abovers have fallen; nights still and close; alight breezes by day.	rice erops, the prospects of which continue unfavorable;	

^{*} Telegram of the 15th July received on the same day.

3	۹o.	District.		rein	eta of en from district-	(thinfall at Sudder Station in inches.	Character of the weather in the district as far as known.	State and presented of the crops at date.	Runabes.
BEI	NOAL	L.—(Contd.)							
		Central Districts.	_	41	wa.				
		(Confd.)			373.		or. 1. 10 P. 14 1	Conn. on 1701 1 1 1 1 1 1 1	
Conta.)	13	Rungport		July	12th	1.57	ers of rain.	Crops on high land very back- ward on account of defi- ciency of rain. Those on low land better.	
RANGHARTA DIVINOR, (Confd.)	14	Водтав	**	10	12th	2.70	Cooler than before and more rain his fullen.	The cutting of the ous paddy has commenced, and the onun paddy is being sown. The additional rain that has father in the week has done good, but more is still.	
								wanted; jute-cutting has commenced.	
KEN	15	Pubna	***	>>	12th	1.93	Cloudy and close notwith- standing two moderate showers of rain on the 7th and 10th instant.	Crops have been benefited by the showers, but more rain	
MYX.	16	Darjosting	14+	10	13th	9-25	Rain has been abundant in the hills during the week, and in the plains enough has fullen to preserve the crops, but more is said to be re-	favorably throughout the district.	
COOCH ERRAR DIVE.	17	Julpigores		80	124b	7:15	quired there to make	Bhadei dlan is being cut and is an average full crop.	Health of the di- trist generali good.
		Cooch Behar Eastern Districts	411	13	12th	9-78	Showery and cloudy. Heavy roin on the 11th instant.	is remarkably favorable. Favorable. Ploughing for the	
í	18	Dueca		р :	lőth*	0.98	Weather showery, but no steady rain.	Prospects of crops good. More rain wanted, particularly in	
OK.	70	Furreedpore			12th	1.46		the west of the district. Crops appear to have been slightly benefited by the little rain which has tallen during the week; more is	thirting areasy.
DACCA LITVING	2 0	Backorgunge	411	л	12th	2.08	Cloudy and showery. There- has not been much heavy rain.	needed to restore them. The ans crop is expected to be ably about half of what it was lust year, and the amout is also suffering from want.	
	21	Mymousing	441	п	12կհ	2:41	Showers almost daily, but, no heavy continued	of rain. More rain would be beneficial	
	22	Sylhet	411	łj	5th	1.33	TRIB.	Goad. More rain wanted.	
1		Cachar		,,	5th	2.18	rain. Cloudy, with rain. Warm	Rivers have fallen a little.	
1		Chittagong	"	11	5th	0.87	and oppressive.	The rain during the weak least been very insufficient for field work, which is at pro-	No chalera reporta
DATO	25	Noakhally		17	5th	2:34	Duily roins, Weather	sent progressing slowly. Ans and unon than progress-	
2	26	Tipperch	411	н	13th		ender. Gloomy and close wea-	ing fivorably.	
CHITTAGORG SITTAGOS.	27	Chittagong Hill Tra			5th		ther, with occasional drizzling min.		
CELTE				10	27.966	3.23	evening but warm at noon.	Rain is again much wanted in all parts of the district. The rice crop is suffering greatly from the heat of the sun.	
BE	HAR.	Hill Tipperah	***	**	5th	1:50	Cloudy and very but	Ploughing and sowing still going on. Prospects good.	
,	88	Paters.	•	ii i	lőtb*	2.60	Weather partly cloudy and partly char. The rain of last week seems to	The mins have done immense good to agriculture.	Health of the di- trict on the whole good.
PARTA DIVE.	29	Gya		23	12th	0-82	have been general.	Bhadoi le boing planted out, Paddy sowings have com- menced,	

"Relegrans of the lith July received on the same day.

2	Vo.	District.		Date of enturn from each district			State and prospects of the crops at date.	Remares.
BE	HAR	(Contd.)		1873.		· t		
1	20	Shahabad	471	" 12th	6-55	The rain has been	every way improving.	
r(Contd.)	81	Tirhoot	**	., 12th	0-19	general in the district. Hot and cloudy	There has been more rain in the north of the district than elsewhors. From Ha- jeepore report is that rain very much wanted up to 10th; the mulai erop being backward. More re- cent reports show that rain	
PATHA DIVISION (Confd.)	32	Secran		" 12th	1.83	Hot and cloudy. Rains set in during the week. Prevailing wind, east.	has fallen well in the south. Rain general throughout the district. Has done much good both in enabling the ryots to prepare the lands as yet unsown for bladoi and khurcaf sowings, and in reviving the crops that last connenced to wither. The manufacture of indigo (first cuttings) will shortly be commenced. Continuous rain much wanted.	Cholera continues, and smail-per or the decrease.
{	33	Chumparun	447	, 12th	4.15	Cloudy, with rain. Both cost and west winds.	The rain which fell on the 12th has been of great benefit to the bladel crops,	
DRAUGULORE DIVISION.	84	Monghyr	***	18th	0.65	Very cloudy, but heavy min still holds off; light showers full occa- sionally.	which appear promising. The prospects of the crops are improving. The second sowing of the blandoi crop has come up, and if rain continues, it will do well. No damage to crops in the district by locusts has been heard of.	
12	35	Bhaugulpore		441441	******	.essage	******	Hetern not re-
DHAUGI	86	Purneals		" 12th	2:76	Cloudy and showery; more rain wanted.	Bhadoi crop has suffered much from want of min; if rain falls now, the aughany crop	
-	87	Southal Pergunnals		, 12th		General rainfull much less than is needed.	will be good. All erops promise to be late, though prospects are improved.	
B1	95A.							
1	88	Cuttack		., 15th	2.64	Rain at Kondrapara, Jaj- pore, and Jugguising- pore.	Prospects excellent.	
Chicago City Control	39	Pooree		, 6th	0:24		Sarud seed being sown in pergunnahs Rahang, Pachindusi, de., and thu seed which had come up last week in pergunnahs Kurlo, Kodhar, and Damarkhand, is suffering from want of rain. The seed grain sown last week in pergunnals Kothdech, Kotrahang, de., has come up, and appears promising. In certain villages of pergunnahs Malcod, Bagrakot, Kila Parikood, Gad Sathpars, no preparation. for nowing has yet been made	
	. 60	Balasore	1.	" 19th	1:47	Rainfall somewhat scanty for the time of the year, but not so much so as to injure the crops.	for want of rain. The state of beali crop in pergunnaha Ketrahang and Lembai in good Cotton being gatherede Rain anxiously writed for in moveral pergunaha. Reali crop well above ground and beginning to look a little yellow for want of	

Telegram of the 15th July received on the same day.

2 700	District.		retu	its of ra from district	Rainfall at Sudder Station in inches,	Character of two weather in the district as far as known.	State and prospects of the crops at date.	RBMARES.
СНОТА	NAOPORE. South West Frantic Agancy.	er	10	978.				
41	Hazarochangh	***	July	12th	0-98	More seasonable than last report, though rain seems to have been but partial.	ably. Towards the north, however, more rain is re- quired to enable the lands;	inest attil president
42	PopurgaBita		61	12th	1.82	Rainy and seasonable	being cultivated. The rains seem really to luve set in at last, and the praspects in Chota Nagore are now lair. Rain has fallen generally, and in Palamaw the sowings are going on actively, but seed is scored and the loss of entite life has been very large, but the prospects there are altogether much brighte.	
43	Singbhoom	411	Þ	5 t 1:	ው ናብ	Rain has fallen since dute of last report, and not a day too soon; more rain, however, is still wanted.	It is reported that a good par- tion of the dhan meant for planting out has perish-	
44	Madnohoom	4.00	>2	12th	3-20	Showery and cool	The prospects of the crops has much improved since last week, but the min has come too late to save the varly crops of Indian-corn, &c.	tent, expectally in the andder station where 47 death
BSAM	AND ADJACENT HILLS.							
45	Goalpazulı		"1	5th	0.81	The weather throughout the week was unusually hot, though there were a few slight showers of min.		have but partially
46	Kamroop	***	**	14th	2-92		Ans crep being reaped; pros- pects of tea, cotton, and angurcane good. Shall dhan being sown in unsaries.	Public Leath growt.
47	Durrung .		ы	5th	3-14	Sultry, cloudy; tempera- ture high; hot night; and mornings. Little hreeze, of variable direc- tions.	Weather favorable for plough- ing operations. Early rice crop being planted out. Tes operations favorable.	Public health generally goods. Some cattle disease exists, but it is no year heavy.
48	Nowgang .			ն Մ	7-12		The aus dhan crop is being cut. Cultivation of shater crop commenced. To operations progressing favorably.	lers continue to be reported. In the Ingges that an in- fiver flying about tmong the paris
49	Sechanger .			5th	5.11	Fair, with accasional beavy showers of rain of night. Heat excessive.	The seed grain has been sown, and in Jorchaut planting out of rice has commenced.	
50	Lackimporu		,	5th	7:60	wet. Rain fell on five days, generally in the carly morning or during night. At North Luck- impove, cloudy and drizz- ling rain on 25th and 29th and 80th. The	young rice bas commenced to be planted out.	bank hus abated but of III continue in parts in the
B1	Nagu Hille		June	28th	0.03	rest day and hot. Rather hat in the kills owing to the want of tains, and close and muggy in the plains.		
		-					present prospect of the se- veral crops are not shearing.	

No.	District.		Date return each tric	from dis-	Reinfall at Sudder Station in inches.	Character of the weather in the district as far as known,	State and prospects of the crops at date.	REMARES.
	M AND ADJACE:	NT	187	3,				
52	Khasi & Jynteab	Hills	July	6th	2.99	The weather has been	The crops are progressing	Blokness bas dis peared.
						fine, with showers dur- ing the day and at night.		Posterior

Published for general information.

CALCUITA, STATISTICAL DEPT., The 15th July 1873. R. KRIGHT,
Asel, Secy. to the Gunt. of Bongal."

Weekly Report of Rainfall compiled at the Meteorological Reporter's Office.

Drythtoft.	Descriptor.	BTATION.		Rain from	Bein from	J.	IN FROM 16T BUART 1873.	Remare.
Dia		1		June 1673.	5th July 1875.	Lucho	s. Up to date.	
9N	OAL.			Inches.	Inches.	Inches	1873.	
	Wastaan Distrators	a Dondana				18:44	gal. Tutte	
-		Outwa	411	3/11	3.89 Nu	12:31	5th July.	
- [Sandwan	Bood-Bood	711	ditto 4°20	1'46	10:06	ditto.	
1		Ranoesunace	***	6.09	1'43	971 673	ditto.	j
- 1	Bancoorek	Hancoorah	102	0.33	2144	13 33	ditto.	
ان	Boerbhoum	Midnapore	501	Nit bros	\$166 \$157	21.18	ditto.	ł.
		Tunilook	90.	1:00	2707 8118	18'05	ditto.	-
BURDALL	Midnapore	CDy. Colin.		1.75	1.57	11.31	ditto.	
	1000 1	Contai				18:40	ditto.	
f	Hooghly	Honghly (Bgo, Engr	An Olistin	1.49	2:17	14.51	ditto.	
l	Hooghly	Borampore	AIF.	118	1:07	32'60 12'42	ditto.	
	OSFERAL DISERROIS.							
	(Saugor Island	TWO	0.80	8.008	11'939	ditto.	
		Altroro [Thepeneary	7 141	013A 0184	1.51 5.63	13:50	dibto.	
		Bummerhaut	159	0°30	2'5G	16:17	ditto.	
1	24-Pergunnaha	Baraget Baraged Harbour		0.72	2.30	9 40 14 05	ditto.	
		Barripora		0.468	0.81	17:54	ditto.	
4		Barrackporo	***	9:40	5.04	12:77	dilla.	
CKING BEET	}	Richusghue	***	0.07	9.52	11:49	ditto.	
	Nuddea	Hengong	***	0.18	1 10 1	1994	ditto,	
	TA HEALTH AND	Cheesdangan	49.0	0:1a 9:03	0.00	19:18	disto.	
	,	Remarks	100	0.28	3*13	FRHA	ditto.	
1	1	Jeantre Numil	1901	174	1244	21/81	ditto.	
	Jessora ,	Khoolnesh	ige.	Nil I	Nil Silv	21/81	ditto.	
	l	Bagirhant Magoorah	71-	1774	2.83	20 79	ditto.	
	Í	Rechampore	+	0.48	1-31	7-81 5-99	dipto,	
1	Moorshodabad	City Moorshedabad	41-	0°26	0.80	4'91	dirto.	
. 11		Animisipore	414	0°286 0°70	1/125 (1/19)	(1136) (134 <u>6</u>	ditto.	
	Dinagepore	Lakrolla	***	Nil	1.114	1313	ditto	From tat Followary.
Ш	Multipli	Mahlali	100	010	0.07	7 01	ditto.	
П	Rajehaliyo	Nattore	444	(1,05	1911	14 70	dittos ditto.	
1	Ringsore }	Rungporn Hhowastiguage	***	NII	0.03	설계 기계 설계	ditto.	
-11	flograh	Titalya Rograh	400	Not rec. 7:00	0:07	39'83. 15'98	ditto	Not received \$2nd to 35th Jun-
4	Pubus {	Pubna Sorajgunge	100	Nit 0 69	033	17'40	ditto.	
1		Theleshing (Tolegraph		Not yec.	Not rec.	22'06	toth June.	
d	Darjesting	Darjeshing Hospital			190	27-94	oth July.	
	,		100	0.10			altto.	
	Julpigoree}	Julpigorea Falacetta		2.41	1842	43°07 66°82	ditto.	
	Cooch Bahar Tributary	Bodah	410	1.04	g.no	30.HG	ditto	
	State Hautan Doors	Cooch Behar	···	16:59	2-03 17-22	68-109 68-109	ditto.	
1	HARRIOTS.		mb.e	20 00	.,	1-11 40		
	(Duoca Tolograph O	Mee	3.83	3.23	28-23	ditte,	
0	Dason	Meonshogunge	984	1:39	2:23	20'89 26'17	ditto.	
H		Martalana	411	038		16:53	ditto.	
10	Furreedpore	Ferreadpare	624	0.50	(r14	20.41	ditto.	
H			,}	0.54		1458	ditto.	
	1 7	Burricaul		0.88	214	19:59 21:27	elisto.	
П	Baschon Printers	Madaripore Patocakhally	144	1-193		23-465 33-34	ditto.	
11	20 4	Doylet Khan	100	0'67		21'46	ditte.	
J		Mymensing	100	3'04	824	89-74	ditto.	
1	Tiec 3	Astonh	110	0-164 0-164	8'40	20:32 L0:18	ditto.	
1		Etahoregus pe		1.11		29/74	ditto.	
1	2 196 X 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		***	8:46		48100	ditto.	
Ų.	The second second	Oteher Hylekundy Koyah	941		Nut rec.	88-95	Stat June.	
	Street, and the street, and th		Office	1:70		31.20	oth July.	
1	SALES AND A TOP OF THE RESIDENCE AND A SECOND OF THE RESIDENCE AND	Cor's Basse	445	1'10	0.80	83'35	detto.	
LAC	Heathally	Noakhally	day	9°19 1°18	皇市市	43 61	ditto.	
1		Prahmanhariah	411	\$'01 2:51	0.50	32 65 34 18	ditto.	
11		Hill Pippers	711	9'00	3 188 1 56	27.33	disto.	
ш		The state of the s		_	- 4-			

DOE.	Distance.	STATION		Rain from	Rain from	BAIN JAN	PROM 187 SARY 1878.	Hemanus.
DIVISION.		,		June 1878.	8th July 1978.	Inghes.	Up to date.	
EHA	A.B.			Inches.	Inches.	laches.	1878.	
	(Patna		0.488	0.07	478	tih Inly.	
-	Patna	Behar		Nil 0'71	0.69 MIT	3'57 5'90	ditto	Not received 8th to 21st June.
- 1		Dinapore [Jail		0.40	1,80	6'84 4'65	ditto.	
- 1	,	Gya. Chinton		N (1	9:35	8128	ditto.	
- 1	Gya	Nowadah	461	ditto	0.80	3.18	ditto.	
i	(Aurungahnd		ditto	018 018	4.20	ditto.	
. 1	(Arrain	4	0.11	0.92	3'99	ditto.	1
	Shahabad5	Burar		Nil.	(F)(8)	2-63	ditto.	
PATRA	,	Blinbookh		ditto	Not rec.	7'48 8'99	ditto.	
-	1	Durbhangah		ditto	ditto	4.85	ditte.	
- 1	Tirhoot	Hajipore Modimbani		NII.	ditto	7'13 8'49	ditto.	
- 1		Sentamaree		ditto	ditto	1570	ditto.	
i	Sarun {	Tajporo Chuprah		ditto	0.36	9°48 0'48	ditto.	
	}	Sewan	0	ditto	(Yan	4:76 14:43	ditto	Not received 15th to 21st June,
(Chumparun	Rotechari		ditto	1 '02 4 70	1031	ditto,	
,	Monetyr	Monghyr	101	0:03 Nil.	(1ºFe)	431	ditto.	-
1	mangay }	Jamesie		ditto	3140	7-95	ditto.	
4		Bhanculpure	450	ditto	0.09	7:01	ditto.	
	Blinngalpore4	Mullioypoumb		ditto	315	1176	ditto.	
SAUCTIONE		Banka		Not rec.	Not rec.	0.80	ditto.	
5	5	Porneall		Nil.	2.34	33'65 17'70	14th June. 5th July.	
31	Purnous {	Kishengunge		ditto	6'56	36.94	disto.	
4	(Deckling in	411	6.80	227	0.07	ditto.	
Ĺ	Southal Pergunnaha	Rajmobal Pakonr		Not rec. Nil.	Not ree.	693	Bih July.	
	Spinister - O'Rename	Ware Discounting		ditto	(MAIL	3'44	ditto.	
	· ·	Godda		Nil.	2170 1110	8.33	ditto.	
	CHIBBA.							
-	(Cuttack {Telegrap	h Office	dittu	11:50	8'96 10'95	ditta.	
- 1	Cutteck	Jaippore (Hospital		N 0.	2*07	13.35	ditto.	
.1	Cultarit 10-4	Kendrapara	la l	ditto	R/90	976	ditto.	
텔	ļ	Jugutsingpore Palse Point	-11	Nat.	0188 0150	31 25	ditto.	
OBTES	Poores	Puoree Khurdah		3.00	0:30 0:32	10.13	ditto.	
9	Ì	Ralpauro	-	Nit.	3/160	14'03	ditto.	
- 1	Ralasore	Hhaddruck Jelianora		Ni1,	1145 0180	31.37	ditto	From 1st April.
- 1		Borah	444	ditto	315	6.73	ditto	ditto.
	Cuttack Tributary	Chandbally		6.33	1.70	7.60	disto	ditto.
	Hohala	Sambalpore	d ehr	Not rec.	Not rec.	4:72	tist June.	
	CHOTA NAGPORE.							
	PRONTING AGENCY.							
		Hazaroebaugh (Jai	il	0:17	2-27	8:00	5th July.	
	Hasarcebaugh	Pachumbs	permuy	Ni).	2.00	6:01 8:05	ditto.	
	Loharduggah {	Ranches		0.37	0.01	5.44	ditta.	
	Singblacom	Chyobassa		Ni). 0-13	7,03	4'68 11'27	ditto.	
	Manutiboom {	Purthin	140	Not rec.	0:47	7'48 8'45	ditto.	
		Contractorie ""	140	7400 160	Not ree.	# VD	THE PRINTY	
	ARSAM & ADJACENT HILLS.							
	Goalparah {	Goalparah		0.488	, Drikt	43'75	5th July	
	;	Wicobrec		1.10	3.00 2.85	4912 8008	ditto.	
	Каштоор	Burpettah		0.92	OF EB	20.31	ditto	Not received 15th to 21st June.
	Диргинд	Texpers Mungledyo		0'99 1'48	Not rec.	81.51	28th June. ditto.	
	Nowgong	Nowgong		1170	Not rue.	89'12	oth July. 28th June.	
	Seebauger	Goinghat		0.78	ditto	RE'31	ditto.	
	seatomrifica. "	Negotralia		0.18 1.22	ditto	25 10	dirto.	
	Lunkimpore {	Debrooghur North Luckimpore	175	2'01	ditto	41/15	ditto.	Not received 97th April to 10th
	Mana Ullia	Suddya	441	1.H3	ditto	38'35	ditto	May.
	Naga Hills	Samoogoodling		Not rea.	dillo	16:28 26:12	14th June. 25th June.	
	Hills. Jyntesh	Januar	***	3.04	ditto	41.98	ditto.	
	Garo Hills	Cherrapounico		5.74 0.28	ditto	135'92 48'10	oth July.	
		Danner		0.13	079	1.07	ditto.	
		Deniment						

CALCUITA, The 12th July 1978.

H. F. Blanford, Meteorological Reporter to the Goot, of Bengal,

Meteorological Telegraphic Report for the period 6th to 12th July 1873.

ا ر			Margameter	Ilurometer	Тривно	APPRE.	Humi-	Wini).			Weather
Stantone.	Dato:	Hour.	radicead to	reduced to see level.	Dry.	Wet.	dity Sat.	Direction.	Velogity.	Rain	Clouds.	11 maring
	July											1
1	6th	10	23°607 29°414	50-193 50-193	85'5	82-8	F1 80	8 5	1	0'04	K, K	ì
-	7th	16	29.208	29.526	86.3	81.0	69	8-	1	6413	K K K, CS,	-
.!		18	29:430	29*444	86.6	위하.의	87	88 E	144	0.08	K, CS,	sende
	8ch	10	29.107	29.485	87.6	840	85	5	100	0.30	K, C	werthe
Caucovia.	9th	10	29.503	29 591	88'5	92.9	84 91	8 W		IF12	K	o, d
31	10th	10	29:429 29:603	20 447 20:521	87.4	81:0	74	8 W	1	***	K	ernsla.
1		18	89.401	29:419	614	84.0	73	S S W		Ordo.	207 584	6
1	11th	10	20.748	29:310	85.6	81.5	83	SW	1111	0.28	*****	0
	12th	10	90:385	29'187	95.5 62.4	821	86 95	e 1 = 107	,,,	110	*****	0
4.	July	18	20 202	29:4/13			1	8 15 W	"		*****	1
1	6th	10	20*527	29-533	89	80	91	WSW	143	0.50	N	d _i d
. 1	7th	18	20.431	29-437	85 87	83	83 70	WSW	17.0	0.30	N	B.W. W. SCH
8		10	29'469	20-465	84	83	83	SIT	12-8	464	N	d, o, seud
# []	81h	18	20'65D 20'44U	29:466	60 98	원장	76	S W	7.7	ebb.	N	4
4	9th	10	28.537	29 548	86	83	F7	WSW	194	0.10	N	b, u _s scm
18	10th	16	20.631	29°468 29°637	88	91	76	NSW	15-9	261	Br-	b, 14
SAUGOR ISLAND.	-	16	20 480	20:445	89	88	76	WRW	15.7	***	N	b. 16
	11th	10	29-516	20 523 20 434	18	84 84	91 76	W S W	141	0.50	N	10, 16 10, 16
	12th	100	29*483	20 488	68	81	91	WBW	5.0	0.50	N	d, 0, N
Ų	July	18	55-403	28-109	81	RO	93	N	199	0.30	N	d, 0, 10
(Uth	30	20'642	29 636	60	78	91	BEE	0.5	1:30	N	P. 9
- 1	713	10	58-540	29-543	81	79	78	S R	19:3	0.40	K, Ks Ks	2º m. 19
ا! ي		36	20.957	29-616	85	79	75	SE	16.8	100	CK, KS	Ь
0.00	Sth	10	29.627	20:706	84	79	79 87	BSE	7°0 15°1	0.10	R, KS	h, a. Pe ii
9	9th	10	\$9.850	29 053	62	79	83	ESE	8.8	010	K, KS	10
CHITSARONG.	10th	30	20.504	29.550	85 84	50 70	711	88E	13°1 7°1	0.60	K.ek K. Ks	P 44
5		16	203400	29:50.L	86	80	79	SSE	19-5	***	K, C	b, e
- 11	11th	16	20:484	20:570	86 88	81 83	79	888	8.0	Blex	K. CK K, K8	1
- 11	12th	10	20:430	29 632	90	78	01	ESE	46.63	141	N	d, u. g
Ų	July	16	50 -348	29 155	84	80	ai	88 W	120	0.10	KS	P. 9
-	Bub	10	20-799	29.767	93	74	37	S W by W	14	Dept.	485145	€*
1	8th	10	29-008	20:638	85	78	71	S hy W	12	0.30	148	rloudy.
1		16	20'628	29:556 29:556	96	81	63	BW	14	1	100 100	e
- 1	7th	10	20:007	20/811	87	71	6i	8 8 W	11	***	*****	cloudy.
	arp	30	201820	201807	99 88	75 73	49	WHW	1.1	***		4 10111274
MADE	9th	10	50.830	20.745	91	73	30	S W by S	10	***	185-41	cloudy.
8		16	20.702	29:784	100	73	23	W by S	13	144 E14	261.219	Ø.
j	10th	10	20.610	29-840	01	73	(10)	WAW	17	W-10	well to the	elondy.
-	11th	10	29:793	29:7(t) 29:8:9	0A #3	73	31	SWhyW	17	141	841) - 89) 888	Me Control
ι	July	18	55,484	00'714	97	74	30	B W by B	16	215	*** ***	
ſ	dit.	10	29 483	29.545	95	79	70	wsw	4.5		K8, N, C	-
	7th	10	20 375	29:457	80	78	(k	WSW	84	1.50	KS, N, C	
1	Sch	18	20.370	29'453	84	78	76	WEW	400	***	K8, N	4
اند		10	29'500	29.593	86	78	75	NNE	4.9	244	K, KS, C	7
Corridor.	9th	30	29°60B	29.601	81	7.6	84 78	N W	4.3	0.80	KS, N. C	
	10th	10	29.493	20 576	80 84	78	62	H W	7.4 6.7	***	N KB, N, C	d
0	11th	18	90 407	20.489	47	711	75	WSW	8.5	PAR.	CK, K8	
	TTM	10	38.903	29:183	B4 (1-)	78	75	WSW	2·9 5·5	2+1	K, S C, K, KS	
	12th	10	99-427	29 509	BR	79	65 72	WSW	4.3	***	K8, C	
	July	10	19 447?	20:5299	95	80	759	8 W	4/1		68, N	
4.	6th	10	20.677	29-899	83	78	82	8	1.9	1.40	PREFIT	25 #
		18	29'707	29.728	70 81	77 90	90 93	8 8	4.8	0.70	148.148	P. 18
-	Bth	10	29-633 24-739	89_656	90	76	91	8 W	+8	***	400.044	#
61.		18	99 689	29.488 29.688	84 79	91	95	8 W	2.1	0.10	54 F 14 F	20, 6
Agries	Oth	10	29.670	50.003	81	78	80	8 8 W	8:0	0.20	*****	9
4	loth	10	29 680	\$9 ft02 29 ft89	81	79 80	91 83	BRW	2.3	0.10	180 140	P. #
	1111	10	89'519	99-541	82	80	G1	BBW	2.0	0°10	*****	
1	111	18	20'678	29-595	81 84	80	95	a w a s w	9.0	0.10	201101	10,6
	130	10	30'588	89*590	100	81	96	BW	1.6	0.60	481-21	22
- 16	30 80	1.40	29-479	89'501	80	81	95	BRW	1.8	0.10	802.037	0

Abstract of Observations as received in the Meteorological Reporter's Office, Calcutta, during the month of May 1873.

N.B. - The barumetric data are reduced for temperature, and not for height, above sea level.

RAINFALL		19.5	No. of du		~ 60									. PA	en ;	61	0 01	-
RAIN			Medani al	19-97	9.60	11.58	200	3.11	378	243	630	980	0.20	-018	1.18	200	17.0	0.36
			January 20	1	i.E	*	82	28	12	1	8 %	15	2	18	\$1	8 2	9	3
TX.	10 8		.atmod ht	E	6 6	2	0 0	28	0 00	3	8	8 2	34	23	8	25	3 5	3
HOMIDITY	Maas		10 hours.		68	•	-		_	-	_			-	-	3.	_	
HO			- ponta-		12	28	20 90	23	2 28	1	8 8	:	캢		#	88	20	8
			Menn.	Ę	審	2	14	2.6	- 4-	:::	82	8	12	100	#3	12	13	\$
	E 10		Ф	75.0	83-0	97.6	100	83	200	68-8	68.0	80.00	2.09	71.4	70.1	F.14	0.69	28
	Lowery Max.		Day.	30th	3114	Lit	6th	410	4-Bth	5th	4255	끃	49	5kh	25	E	Sth	16th
		- Secul	Monthly	190	10.6	200.7	38.	200 P	86	43	P 9	41.0	å	37.0	88	8 8	150	9
	÷ 1		0	20	8	076	310.5	946	10001	108.8	67.0	106-5	113.5	1013	104.0	95.6	114-0	119-11
AIR.	HIGHERT MAK.		Day.	446	19th	5-27th	214	17th	21st	2)100	Diela D-82nd	23rd	8-33rd	Band	0-92nd	S7th	23rd	24th
DEMPERATURE OF AIR			auroal &£	į	87.3	8208	2000	1.00	P-88	I	79-1 20	82.4	85.9	87-5	68-7-9	18.4	87.1	81.0 0
BATU	40		.eruari 61	9.48	90	0.88	8.96	9.50	9.76	9.56	1.06	1.16	6-06- 6-06-	1004	8	200	100.3	9.06
BAKA	Mean		ernod Of	96.50	2	200	88	8	8	8.05	G 600	0.06	# # 2.	200	444	200	1.86	9.06
H			*itshoff \$	1	BG 2	700	80.0	200	9	, d	7. E. S.		206	ŧ	0.0	200	のは	**************************************
			Stoan.	: 0	100 mm	- C	\$ 10 \$ 2 \$	5.93	87.0.E	87.8	* 10	648	2	61.0	100	200	69-66	60
	İ	rman	he neak	(7) (8) 4 :	9.00	23.00	79.3	5. T. Y	000	900	100	6.4.	Par	180	01 0 01 0 1 ~ 1	20.5	- F	61
	†až	իչ արձ	alean dui	12	4	121	10	24	17-4	10 m	0.00	日本の	2	61	현 (()) () () ()	D 40	27-0	500
		.Xem	Je mang		90.8		_						_	3036	1000	100	100.0	8 8
	FS4L.		D	1	1 1	67.5	0.89	1.2	3	8.58	629	61.5	S.	***	CT C	620	1	68
	GERS NICTURALL	Min	Day.	*	1 1	132	Seb Seb	675		613	E	61]1	2449	:	Del.	7-84.h		1541
NOS.	эмз ё		'greaty'	1	11	*11.	9.1.	19.0		72.1	0.00	9.89	13.1	-	34.8	0101	1	2
BADIATION			0		117.0	1630	1840	102.0	151.9	4	284	167.0	8	1.984	165.0	143.8	1700	1860
26	South.	Mas	1	182	18-19ch	Sath	3.50%	SATA SATA	19th	13th	S-FID	23rd	1347	12th	Bud	144	Sist	24th
	92		.treals	147 d	111.6 1	1,88.5	107.0	147.0	- G1	200	35.6	158.7	155-3	3.00.8	1560	107.8	181.6	Jel-O
		-	Butige	580	113	601.	50	500	117	194	***	ili.	143		_	124	-	-
			ruod \$2	ì	29-750	992-62	80.626	66-66	689.08	1	20-818	27.730	29-626	109.63	110.00	29.364	617-63	11182
KTER.			annoil DE	217-93	39-861	589-68	20,000	959-65	189.0	119.00	90.00	17.073	200	20-15	177.86	20-289	29-383	28.745
PAROVETER,	Main or.		Pannet OI	182.00	9.280	9.787	9636	694.6	841-0	82.B	91.48	7.784	280-686	29-554	25.00	90 + de	59-468	058
-		,	A house.	1	297.05	29.706	200	29-689	18.00	-	90.000 ST. 000.00				102.00	318.63	90-41 ₆	182SS
			Meun.	125-754	8 12 8 8 12 8	187-27	9.6	C17-02	200.08	90.00	20.00	22.73	25-616.	20.485	019-88	2000	29-4EE	28-786
	.fovale	94 9A00	da tdījisEi		- E				18:11	8	48	200	5		1000	988	-	201
		STATIONS.		1	THE PROPERTY.		that	Sport Talend	lends.	seore	100		-		-		-	

80.0 Mean lumidity of 16 years 87.0 Ditto ditto of 1873 1.0 Defect in 1873 116 Man large-strict presented of 16 years ... 29 655 Rean temperature of 16 years Ditto.

Ditto. dillo of 1673 ... 29 667 1 1850 of 1673 ... 1650

Metsorological Reporter to the Gort. of Bengal. HENRY P. BLANFORD,

73 Mean rainfull of 16 years 75 Actual fall in 1873 ...

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544 Judy 1875.

Mean presence and temperatures of the preceding table reduced to sea level, with anemometric results and observations of sky serenity.

		E E	£ 7	1						\mathbf{W}_{L}	M 21-				
Byatioss.		Mesu berometric sure reduced to level.	Ment temperature duces to sea-level	North.	North-East.	150 ST	South-East,	South.	South-West,	West,	North-West,	Calm.	Percentage and Resultant,	Mean velocity daily.	Man serenity,
Port Blair		20.857	83.1		10	,	8	Phy	24	1	10		20 S, 83 W	a bi	8'40
Madras		20.763	86.8			1	35	21	ő		144	63	87 S. 21 E	2731	194
Vizagapatem	601	291750	88.3	P.1.0		1	16	33	1.5	âß	4		42 N. 48 W	1236	6.14
Akyab	***	29.700	814	2	1	7		12	(B	46	19		64 8 70 W	41.7	6:77
False Point	141	29:730	949		9	1	4	12	Bit	14	6	3	50 S, 73 W		- 10
Cuttack	-	29.713	88.7	1	8	.3	7	337	31	6	6	20	46 S, 18 W	112-8	7-18
Saugor Island		29-716	86*8	6	9	5	7	49.	43.3	13	3	241	61 N, 20 W	3200	5:43
Chittegong	465	29-774	83'3	8	Ð	12	13	34	*188°	- 11	4	.0	39 S. 13 W	1528	6'51
Calcutta	***	29:705	8710		7	7	0	41	31	17	8	375	51 S, 23 W	180'8	
Jessors	411	20-(95	97.3	F 15.7		3	12	26	13	G	23		69 S. 7 W	1141	7:18
Dauca		20723	83.4	1	6	11	10	67	21	2	2	a	0 S. 7 E	13979	6'51
Bilchar	ites	29*730	813	11	18	30	10	ű	H	20	D	17	15 N. 48 E	74'1	4.71
liamreebaugh	494	29·8·1	93.0	7	- 6	(3	11	7	11	12	33	3.64	30 N, 61 W	210.3	7.1
Berliezoporu	100	30-680	90.0	9	5	7	21	30	23	11	6	10	38 6, 4 W	143'8	6.08
Bya	101	Not rect.													
Pains.	De	\$8.642	93.6	44-	7	21	4	411	3	20	[A	13	20 N, 37 W		0°10
Mongher	100	20 609	80.8	- 0	12	34	10	2	11	38	1.4	4	5 N, 18 E	107.6	7:55
Darjeeling	P0-1	*****	104.514	1	4	19	10	11	발	37	7	2	32 S, 30 W	481	4"24
Gowelpareli	191	29.729	81.1	4	2	32	12	20	7	34	7		20 S. & W	108.3	4'87
Benaros	***	29.643	03-0	0	. 3	18	9	4	4.	38	11	30	20 N. 77 W	97'6	0.87
Roorkeo	***	29:002	87.2		12	1	10	145	13	2	24	56	7 N. 60 W	121-9	7:81

NOTE.

Barometric Pressure. - The pressures in column 2 of the above table for all stations below 500 feet are reduced from those given in column 3 of the table on the previous page by adding the weight of a column of air of the corresponding temperatures given in column 17. For stations of above 500 feet elevation the reduction is made by Dippe's tables as given in Guyot's "Metcorological and Physical Tables." The temperatures at the sea level are taken from column 3 of the above table.

Temperature. - The temperatures in column 3 are reduced from those in column 17 on the preced-

ing page by adding 1° Fahr. for every 350 feet.

Wind Resultant.—The resultant wind direction and the comparative predominance are calculated from the whole number of wind observations recorded during the month. The relative predominance in the direction of the resultant is given as a percentage of the whole number of observations. The direction is computed in the usual way by Lambert's formula.

Serenity.—This column gives the average proportion of unclouded sky; a cloudless sky being indicated by 10, and one completely overcust by o.

The above being all comparable, afford the data for constructing a meteorological chart for the month, which shall show the isobaric and isothermal lines and the resultant wind directions, which last may be represented by arrows of varying length, proportioned to the prevalence of the wind. To these may be added the rainfall from the previous tables.

CALCUTTA, The 5th July 1873.

HENRY F. BLANFORD, Meleorological Reporter to the Goot, of Bengal.

Results of the Meteorological Observations taken at the Surveyor-General's Office. Calcutta, from 8th to 14th July 1873.

															
		-1.2	Ten	там ом :	STER.			den	MB	* Wor	D.				
Renth.	Ditte	Mess reduced barometer.	Bighert reading.	Lower reading.	Max. solar radi-	Alen dry Salts.	Mean wet bilb.	Compated mean	Mean degree of humidity	Pereniling direct	Man, pressure.	Didy relocity.	Estin.	Moon's places.	Country Manager.
	j	Inches.	О	0	0	0	0	0	l 		ь	Miles	In.		
July	ath	29:623	87'6	81.0	132-0	63·6	81.6	80-1	\$1 8 0	RSEASE		168-1	0143	*4*	Overeast, onemili, summi- limi and stratoni, Rain at 64, from 124 a.m. to 2 r.m., at 64, & 54 r.m.
	9(1,	1478	684	81%	147.0	83°5	61.8	7018	*88	Basse	<u></u>	68-9		.41	Clouds of different hinds. Thunder between 1 & 3 P.M. Drizzled at mild- night, \$4, & 5 g.m.
	10ш	4.59	92·0	60-2	139-0	84-6	81.3	76.7	r.g.	Sty B&S W	PH	112·9	0'42	0	Ciri, cirrostrati, ormali and overcost. Thundso- between 5 & 5, and at 114 P.M. Lightning at 11 P.M. Slight rain from 5 to 114 P.M.
	llth	*45 0	90.0	B0*5	141/3	89.8	61.3	70'7	-89	S W & S B W		100%	0.62		Chiefly everent, Light- titur at unideight, 8 A.M., & 11\frac p.m. Slight rain after intervals.
	12th	'428	87.0	80:0	181.9	82.4	80.8	79.2	·PO	SSW& Variable.	O-9	99-8	1.10		Strateni and overcent. Thunder between 14 & 3 r.m. hightning from midnight to 9 a.m., & nt 14 r m. Rum from 14 to 3 r.m.
	18th	-387	98'8	80.9	137-8	82%	81.2	801	'92	SEWABW		47-6	010		Stratoni & oversast. Slight rain from 1 to 2h, and ut 5 r.m.
	14th	-427	63:0	79-6	148	81.9	70-9	78.9	*Úð	SWAWS		13-9	0.19	***	Chiefly overcust. Slight rain after intervals,

The mean barometer, as likewise the dry and wet bulb thermometer means, are derived from the twenty-four bourly observations made during the day.

The dew-point is computed with the Greenwich constants. The figures in column 10 represent

The dew-point is computed with the Greenwich constants. The figures in column 10 represent the humidity of the air, the complete saturation of which being taken at unity. The receiver of the lower rain gauge is 14 feet, and that of the anomometer 70 feet 10 inches above the level of the ground. The velocity of wind, as indicated by Robinson's anomometer, is registered from noon to noon.

The extreme variation of temperature during the past seven days	100	124
The max, temperature during the past seven days	411	92.0
The max, temperature during the corresponding period of the past year	101	92.6
The mean humidity during the past seven days	***	0.89
The mean bunding during the corresponding period of the past year	101	0.88
		Inches.
The total full of rain from 8th to 14th by lower rain gauge	***	2.74
by anemometer gauge		2.60
Ditto ditto ditto, average of ninctean previous yes	APE	2.44
Ditto ditto between the 1st January and the 14th July		15.24
Ditto ditto ditto, average of ninoteen previous yes	M20	80:49

Gorsenauth Ser, In charge of the Observatory,

The 15th July 1878.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY-MAIN LINE.

approximate Return of Traffic for Week ended 28th June 1873, on 1,280 miles open.

	(COMEDING TRAPPIC.		Явиспаны	GE AND MINERAL TI	RAPPIC.	Total truffe
	Number of t prosengers.	Countries receip	tu.	Weight carried.	Hereipta,		mosulds.
Total traffic for the work Or per mile of milway For previous 845 weeks of half-year Total for 245 weeks	119,930 2,847,881 2,947,841	1,28,663 0 0 11.3	C. a. d. 9 6 2 9 8 19 8 9 11 4	197.070 H	8,05,425 3 0 2 238 9 10		\$0,785 14 10 \$1 1 8 1,226,187 1 10
Total for corresponding week of previous year	09,897	84 9 1	70 19 J 7 16 3		252 14 8	2,675 16 6 33 3 4 3,724 19 1	

^{*} Mds. 27,040 and Re. 5,903 added on account of difference between approximate and multipl crimes of previous weeks.

EAST INDIAN RAILWAY-JUBBULPORE LINE

Approximate Return of Traffic for week ended 28th June 1873, on 2234 miles open.

Total trame for the week or per mile of rallway. Per previous 24¢ weeks of half-year.	4,07 1- 1,20,142	Re. A. P. 6,532 to 9 29 3 9 3 9 3,80,724 2 7	£ m. d. 508 19	* 31ds. Six. 75,804 So 1.803425 0	* Rs. A. P. 17,835 14 P 77 9 0 5,18,460 7 6	£. a. d. 1,589 2 7 7 2 8 50,270 17 4	£. s. d. 2,185 o 11 9 to 10 85,720 9 to
Total for 259 weeks	1,20,410	3,93,256 15 4	56,018-10-10	2,017,319 30	5.00,745 # 8 -	01,930 10 11	87,908 20 9
Costlanison.							
Total for corresponding week of previous test. Per mile of rallway corresponding	4,613	10,800 8 8	990 10 10	52,777 0	16,596 to 0	1,602 1H A	2,400 15 6
week of previous year	411144	49 8 10	4.6.8	448414	78 & 0	6 14 G	11 3 2
Total to opresponding date of pre- vious year and an an arrangement	1,40,231	4.90,078 5 11	28,506 18 B	1,492,518 50	5,30,111 10 4	40,748 11 4	197,450 B U

^{*} Mds. 8,425 and Ms. 1,800 added on account of difference between approximate and audited returns of provious weeks.

NULHATTEE STATE RAILWAY.

Approximate Return of Truffic for the last 2 days ended 30th June 1873, on 271 miles open.

	į	Bir A. P. ye	E & d.,	Mds Srs.	304. A. 111	# £45	E s. d.
Total traffic for the two days	31h	NG U 0	20 18 0	1,554 0	991 4 6 .	9 18 6	3n 1s 0
Or per mile of rallway For prerious 26 weeks of half-year.	48,4614	30,078 0 16	3,007 16 0	109,011 6	13.282 0 0	1303 4 6	4,391 B 0
Total for 26 weeks and 2 days	42,7844	80,827 8 0	4,056 13 Q	tize,630 0	18,331 0 0),388 B W	4,001 14 0
Companison.							
Total for corresponding wook of pro-		İ					
. Per pule of railway, correspond	******	p=1 + 64	******	16***	-44**1	89.748	
Total to norresponding date of pre-	whered	*****	891117	118166	n bPa i n	P9149P	*** cab
William year	******	*****	H)		*****	841++6	h18448
							

EAST INDIAN RAILWAY-MAIN LINE.

Approximate Return of Traffic for last 2 days of June 1878, on 1,250 miles open.

								
1		Ra. A. P.	P 2	a. d.	Milm. Sta.	Ita. A. P.	2 s, d.	E 4. 4.
Popul traffic for the two days	\$4,260	30,743 11 6	- 0,003	# 6	3,61,690 Q	60,220 B m	6.071 0 9	9,489 4 3
be nes stille of sailway	2,947,901	98 11 4		12 8		NT 11 10	4 14 16	7 7 0
for provious 350 wasts of ball-year	2,967,901	40,97,368 8 10	8,75,001	11 6	19.814,820 20	97,01,795 10 6	5.89,531 B 4	12,04,920 18 B
Washington and the same		45.04.000		4 . 4 -				
Point tie 154 westen un	2/142/463	41,35,100 4 4	8,714,909	14 EO	19,061,688 \$9	97,0h,625 5 E	8,95,462 6 1	18,74,862 0 11
Collega historic								
Estat for comesponding I day of			i			ļ		
Desagge hot sustainfulning r mile at	14,971	15,444 6 11	3,430	9 9	80,982 50	46,548 0 7	4000 0 11	
Per mile of religing poversymming				• •	and any sale	muçanın v ş	4,259 7 L1	FeWB 10 8
Total to decreeousting sain of	107107	76 0 4	1	8 0		80 1 1	8 6 3	488
Name and Oakle Within	1,600,550	41,50,811 10 13	383,041	1	10.004.103.14	AT - A T		
			- STORET		17.700,161 10	97,68,701 7 7	0,99, 964 8 0	12,71,000 7 5
NAMES OF THE PERSON OF THE PER	-							

BAST INDIAN RAILWAY-JUBBULPORE LINE.

Approximate Return of Traffic for last two days of June 1873, on 223; miles open.

	(COACHING TRAP	hic.	Маконаян	ME AND MINERAL TRAPPIC.	Total traffic
	Number of passetigers.	Conching	percipis,	Wolgist exceled.	Ruccipts.	roompte.
	1	Rs. A. P.	# s. d.	Mills, Ars.	Ra. A. P. & c.	d. B e. d.
Total traffic for the days	1,095 A18,(05,1	1,660 12 9 8 6 8 9,50,250 13 4	371 2 6 0 35 4 30,668 in 10	18,094 20 2,017,259 30	4,685 7 9 497 13, 20 14 0 115 A-05.745 4 8 51.860 19	5, 2 18 7
Total for 254 weeks	1,31,161		30,219 13 4	2,030,250 10	4 7 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1	
COMPARISON.	1,31,101	3,95,133 10 1	911/2151 3-1 41	Zarkwi, zaku tu	6,70,410 14 1 10,287 18	3 30,8074. 2
Total for corresponding t day of provious year.	600	1,634 S P	151 11 0	7,530 50	2,342 4 S \$14 1s	2 7510 4 1
Per mile of railway corresponding I day of previous year Total to corresponding date of	ribesi	6 14 7	0 12 8		20 7 a D 10	
Bath to base bettering once or	1,40,873	4,21,410 g g	38,684 3 5	1,809,885-20	5,89,453 16 7 49,388 n	8 88,000 B 1

CALCUTTA AND SOUTH-RASTERN STATE RAILWAY.

Approximate Return of Traffic for last 2 days ended Both June 1873, on 28 miles open.

		Rs. A. P.	2 8. d.	Mela, Mrn.	Ru. A. P.	# e. d.	6 s. d.
Total traffic for the week Or por mile of railway	1,579	247 0 0	gs 14 0	7,310 0	186 0 0	18 12 0	\$9 6 0
For previous 20 wooks of half-year	194,323	80,197 0 6	\$,010 11 ti	4.05,090 0	15,60g 0 0	1,590 18 9	4.610 12 U
Total for 30 weeks and 2 days	1,99,740	Sn,4H4 () U	g'077 g 0	889,180 #	\$6,045 \ 0	1,004 10 6	4.648 16 0
COMPARISON.						•	
Total for corresponding week of provious year	Mel	d≒ 15 d	0 10 7	10,381 8	535 4 2	82 10 B	M0 10 1
Total to corresponding date of	. 9	972	D 5 0	866 33	18 12 2	1 17 6	* # n
previous year	1,48,629	28,07n 4 0	8,867 19 0	4,40,400 23	18,×87 19 W	1,383 15 [1	4201 A G

NULHATTEE STATE RAILWAY.

Approximate Return of Praftic for the first 5 days week ended 5th July 1873, on 27; miles open.

		Ra. A. P.	£ 4. d.	Mids. Res.	Ra, A.P.	K a. d.	£ a. d.
Total traffic for the S days week Or per mile of malway For previous week of half-year	800 kg 812	#81 Ⅲ (1 23 6 b	2 8 4	2,313 0 0 86 0	223 0 0 8 0 H	0 10 9	84 6 0 3 9 0
Total for 1 week	56 PO 150	641 6 6	#2 2 0	2,312 0	453 H D	23 4 6	66 6 9
Сомеленори.							
Total for perrepositing week of previous year Per mile of milway, corresponding	.18841		4011-20		daniel	44 FB-18	-1510
Total to corresponding date of			******	41-ant	hildsen	10241	161 *14
previous year		414111	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		100141	rld naph	120-1-

CALCUTTA AND SOUTH-EASTERN STATE RAILWAY.

Approximate Return of Traffic for first 5 slays ended 6th July 1873, on 28 miles open.

			15 - 14			
		<u>R</u> s. ▲. P	£ a. d.	Mds. Sfs.	Be, A. P.	4 4 4 8 4 4
Total traffic for the week Or per mile of railway For previous weeks of buil-year	8.747 134	128 0 6 22 0 0	62 14 6 S 6 6	16,130 0 541 0	\$75 G 4 40 8 8	7 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Total for 1 week	8,747	028 O U	02 16 O	36,189 0	275 0 0	87 16 B PD 6 0
Comparison.						A STATE OF THE STA
Tota for corresponding week of provious year	182,875	047 78 G	6 8 16 11	13,827 85	450 16 B	85 19 9 1300 88 B
Per mile of railway, corresponding	137	28 13 R	, 8 7 0	409 34	19 E S	1 4 8 9.25 %
Total to corresponding date of previous year	292,272	667 15 0	66 16 11	13,887 35	380 ¹ 14 B	29 70 9 256 14 14
	ı	<u> </u>		1		P. 33.11 Dec.

[REGISTERED No. 29.]



The Calcutta Gazette.

WEDNESDAY, JULY 23, 1873.

OFFICIAL PAPERS.

Non-Subscribers to the Gazzers may receive the Survigencest superately on requient of Sec Rupers per anomal if delivered in Calentta, or Twelve Runces of sent by Post.

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DESPATCH OF SECRETARY OF STATE ON RECENT EDUCATIONAL, MEASURES IN BENGAL.

No. 278, dated Fort William, the 4th July 1873.

Mema. by-Colonel B. E. Bacon, for Officiating Under-Secretary to the Government of India, Home Department.

Cory forwarded to the Government of Bengal, in continuation of the Resolution of the Government of India, No. 30, dated the 31st January 1873, for information, and for communication to the several memorialists.

No. 3, dated India Office, London, the 4th June 1873.

From-His Grace the Duke of Audyll, K.T., Her Majesty's Secretary of State for India,

To-His Excellency the Right Hon'ble the Governor-General of India in Council.

The despatch of Your Excellency in Council, dated the 14th of February, No. 1 of 1873, transmitting a Resolution of the Government of India on some memorials addressed to it by various Associations, respecting certain educational measures recently adopted by the Government of Bengal, has been considered by me in Council.

2. The Resolution presents, in the first place, a comprehensive sketch of the views of the late Court of Directors and of Her Majesty's Government relative to education since 1854. It then proceeds to state various objections urged by the memorialists against the recent measures of the Government of Bengal, and concludes by showing that the measures against which objections have been advanced are not in antagonism to the policy of the Home Government, or to the broad interests of the population of India.

3. I must express my complete satisfaction with the tone of this Resolution.
4. In common with Your Excellency in Council, I view with pleasure the evidence furnished by these memorials of the deep interest taken by the most intelligent inhabitants of Bengal in all Government measures respecting education. A watchful, intelligent, even though occasionally erroneous, criticism by the people on national institutions so deeply affecting their welfare, cannot but be of the highest service to a just and progressive Government.

5. The very difficult problem for solution in India is the method of diffusing

education amongst the masses without injuring the success which has hitherto attended collegiate instruction; and as the State funds available for education are necessarily limited, it is not to be wondered at that any apprehended transfer from one branch to another should give rise to considerable controversy

and to much opposition.

6. On this part of the subject I thought it right in my despatch of the 26th of May 1870 to point out that erroneous views appeared to prevail in some quarters as to the ability of students in the Bengal Colleges to pay themselves the charges of superior education, and the justice of this observa-

tion seems to be now recognized.

7. It will be found, I believe, upon a general review of educational expenditure in Bengal, that the amount devoted to high education is not absolutely less than it was, but only less in proportion to the amount bestowed on primary education; in other words, that high education has not received less, although primary education may have received more. There may have been a re-arrangement of the expenditure on high education, but the total fund devoted to it has not diminished.

8. The only one of the Lieutenant-Governor's reforms which can be at all open to question is that relative to the study of Sanserit, but I am very far from considering the measures of the Lieutenant-Governor on the subject to be impolitic. I am disposed to regard them as just and proper, but I am at the same time glad to observe that they are to be regarded as experimental. They have already been slightly modified, and Your Excellency in Council has expressed your confidence that the Lieutenant-Governor will watch the results of the change, in order that the opportunities given for the study of Sanscrit

shall be such as fully to meet the requirements of the University standard.

9. In conclusion, I must express my concurrence with Your Excellency in Council in considering that the Lieutenant-Governor has not departed from the broad line of educational policy which has been laid down by Her Majesty's Government during a long series of years, and in cordially approving the steps His Honor has taken to give a more practical tone to education in Bengal. The advance which has been made in the encouragement of the primary

instruction of the people is also a subject for congratulation.

PRICE CURRENT OF FOOD-GRAINS AND SALT IN THE UNDERMENTIONED DISTRICTS OF BENGAL ON THE 15th JULY 1873.

Prices Current of Food-grains and Salt in the undermentioned

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[•] Return not received.

CALCUTTA, The 22nd July 1878.

Districts of Bougal on the 15th July 1873.

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A COMMITTEE OF THE STREET	Mext perceding re-	Corresponding to-	Propent return.	Peecent return. Next proceeding re- turn of last year. Present catain.		Present estern, Next preceding re- turs.		Corresponding re-		Prepent return.	Nent preceding re-	Corresponding re-	Present return,	Nest preceding m-	Corresponding re-	Present peturo,	Next preceding re-	tuen.	Corresponding re-	REMARKS	
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Published for general information.

R. KNIGHT,

Asst. Sony, to the Goet, of Pengal,

Rainfall, Weather, and State and Prospects of the Grops.

Statement showing Rainfall, Weather, State and Prospects of the Crops in the different Districts of Bengal, as reported to Government during the week ending the 19th July 1878.

N	o,	Dintriot.		Date return anch dis	from	Ruinfall at Sudder Station in inches.	Character of the weather in the district se far as known,	State and prospects of the crops at date.	Ainanus.
EN	GAI	ř.							
		Wostern Dietriats.		1873	9.		i i		
ſ	1	Burdway		July 2	20d*	4.47	Weather cloudy, but aul-	Amun crop being transplanted. Grain dearer.	Pover provalent,
	2	Bancocrab		, 1	9th	886		The rain has accured the rice crop for the present, and the general prespects are good.	
I Brox.	8	Вест біров т		. 1	9th		Plentiful and semonable rain in the centre and west of the district; up to the 16th the east had not shared it sufficiently.	the want of sufficient rain in the east has retarded operations, and if it conti- nues will prove fital to the	
DOSENAR DIVINION.	•	Midnapore	***	10 Id	Oth	8-56	Over six inches of rain has fallon at the saider station on the 17th and 18th, and the returns from the sub-divisions indicate that it has been universal.	The heavy rain that has just fullen will effectually pre- vent any further injury to the crops for the present on account of drought,	year when at he head sixing Parichkers gas
	6	Hooghly	4**	., 19	9th		Cloudy, and rain more or less daily.	The prospects of the aus are better. The prospect of amounterop is satisfactory.	
} !		Hownh		,, 1	9±Ъ	6-73	liain more or less every day except at Bagnan and Shampore, where it raised on four days only.	some places has commenced	
		Central Districts	•						
DAVES BE	6	24-Pergunnole	140	,, 2	2nd	3 72	Cione, with an almost daily fall of rain.	Crops doing well. Transplants- tion of amon has com- menced.	General healt good. No free cases of sum pox reported Satishers.
TABBIT PARTY OF THE PARTY OF TH	7	Nudden		, 1	9tJ1	248	Seasonable	The rain has done much good to all crops, but it is too late to repair all the damage done by drought. ludige manufacturing has begun The plant II buckward, but an average outturn is unit to be expected.	
l	8	Jemore	•••	1	Dth	1.0	Cloudy, with fine driving rain on the 18th; wind generally south-east; on the 18th the wind began from north-east and vecred to south-east. The barometer felt very low but he risen again.	The prospects have generally improved with the rains, but in the south some damage has been caused by their holding of so long.	:
RANKAKYE DYVISION,	9	Moorahedabad	444		l9th	2-37	A good deal of raix throughout the district Weather hot, but fresh breeze occasionally.	soly improved. The amor sowings are also more pro mising. The manufacture of indigo has commenced.	nesell-pos still,
HANKAKT	10	Dinagepore	***	1	9th	1-24	Stormy and occasional beavy showers, between which it is not and close.	All crops want more rain, and upless there is a good fall	

^{*} Telegram of the Sind July received on the mone day.

2	le.	Diabriot.		Date of return from each district.	Reinfell at Budder Station in inches.	Charanter of the weather in the district as for as known.	State and prespects of the overpe at date.	Nonen
	MAL	L.—(Contd.)						
		Contral Districter	_					
		(Contd.)	_ :	1978.				
	11	Maldab		July 19th	1.79	First three days rainy; the rest hot and dry; strong emeterly wind on the last two days.		
BANKARTS DIVISION.—(Cont.)	13	Rajobahye		., 19th	2-66	Close and still weather during the first five days; wet and starmy towards the end of the week.	ing, owing to the rain that	
Ē [18	Rangpore	447	T. I. 1011	2.04		1111+1	Return not receive
BLIEFLE	14	Bogreb	**	July 19th	1.94	Very little min has follen- this week-	Only a small quantity of the are crop has been cut this week. The amoun crop is being sown in parts, but much more rain is required for it. The jute has suffered from want of rain.	
ţ	15	Fubos	194	10 19th	2-20	Weather close and closely with a slight rain.	Crops are much benefited by the rain that has fallen dur- ing the week. More rain is wanted for amin dlim. Prospects of crops fair.	
ARIDITAH.	16	Darjeeling		" 19th	6-0	There were three or four very bright days during the week, with scarcely any rain; when it did rain the downpour was heavy.	The crops continue to progress fiverality; but during the past week complaints have been received of want of rais	tioned in a previous report at with he word in about. They have does tends for lejury than migh have been expec- od, and do no
COOCH BEEARINTON,	17	Julpigoroo	14	,, 19th	0.78	Cloudy, close, and less rain than usual at this time of year.	very well; leymonty dhan, sewing continues, and the weather has been favorable, though more rain would	
ţ	•	Cooch Behar	141	, 19th	1.39	Generally hot and sun- ny, but cloudy and showery on come days.	ing the ans rice crap; the latter eron is a poor one owing to want of rain in May. The amun has been planted out in the low	
	18	Eastern Districts.	***	,, 22nd*	2:24	Weather favorable. There has been more rain this week.	grounds only as yet. Prospects of erops good, except in the west of the district, where some demage has been done.	
	19	Furreodpore	-14	_ 10th	1·8G	Generally cloudy with drizzling rain, thought at times the full of each has been good; not much summline during the week.	Crops have revived somewhat, by the rain, which has proved very beneficial. The injury to much of the sus, however,	thing, and ar now higher that they ware age
DANCE DAY BLUK.		Backergunge	•••	,, 19th	8-27	Rainy	A considerable amount of rain has fallen during the week, which has improved the prospects of the crops. In most parts of the dis- trict however, the ans crop will be under the average.	
DAG	21	Mymensing		_ 19th	O-17	Hot and cloudy, with se- casional slight showers.	Unfavorable from wanh of rain. The our than crop appears to be suffering, and as yet any of the rae or amun crop has been planted. Rain is much needed.	
	25	Bylhet		, 12th	3·58	Cool	Outtuen of any crop will be good. More rain wanted both by ten pienters and syste. If the present wea- ther continues the aroun	
-	**	Cashar :	•	.". 12tb	4-50	The days hot and sultry, with good deal of rain lu the night.	erop will not be very good. Not knough rain yet. River lower than it ought to be.	

^{*} Tologram of the 22nd July received on the same day.

) Dian	1 Habrics	Dath of return from each district		Character of the weather to the district metar se known.	State and prespects of the crops at date.	Kenteet
BE	NGA	I—(Contd.) Eastern Districts.— (Contd.)	1973.				
ж.	24	Chittagong	July 18th	\$:63	There has been but little rain for the time of the year, except on the 6th, when there was a fairly heavy fell. The weather being above my with fine intervals. Much more rain appears to have fulled in the south of the dis-	that are now or should be shortly in the ground. A good fall of rain is anxiously lucked. Reports from Cox's Hazar are favorable.	the sudder ma- division, and den- gue and ordinary fevere from Opris Bases.
CHITTAGONG DIVISION,	25	Noskhalty		7-05	triet. Wenther for the most part t a i n y, cloudy, and windy, very little sun-	Assend amon dhan progress- ing favorably.	
CHITTAGO	26	Tipperali	. 19th	1-61	white, Gloomy, with drizzling rain, but heavy rain does not fall.	No harm done as yet, but leavy rain is much wanted. The sus rice is being reaped here and there. It is not a full crop owing to hamfi- clent rain.	
	27	Chittagong Hill Tract	, 12th	0°47	evening, but wurm at noon.	Rain is much wanted in all parts of the district. The puddy has suffered from the prolonged drong ht; maize crop good and ripen- ing.	
TA TE	 Bar	Hill Tipperah	., 12th	0.38	Very hot, more rain wanted.	Fuir.	
1		Festum	1 1 2264*	1.84	Weather clear and chudy, with occasional abovers.		cholara still con-
	29	Gya	. 10th	9-11	Stormy, rainy, and senson-	Paddy has been sown and marws planted out.	juradiction.
i	80	Shalsabad	,, 19th	8-88		Bladei sown, nursery rice planted, prospects better.	Cholors will in the town, though much less preva- lent, Many cases in outlying vil- lenter.
PATEL DIVISIOR,	21	Tirbook	" 19th	8-02	Not and cloudy	In the north the prospects of bhadot and aghany crops are good, and the trans- planting of dhan is going on. The rain which has fallen during the week has done much good to indigo and other bhadoi crops.	
	32	Baruh	19th	6:⊞.	Cloudy with heavy rain; prevailing wind cast, On the 18th at 1-16 A.M. a violent gate secompanied by thunder and lightning and heavy rain lasted about half an hour.	district. The blinded have been well nigh completed a	Uncless continues and small-por on the decrease.
ł	33	Chumparen	., 19th	0.10	Very suitry, winds vari- able between easterly and westerly.	The prospects of the bladel crops continue promising. The first cuttings of infligo have commenced.	
TYTHEOM.	84	Mongbyr	., 19th	1.84	High wind with occa- sional heavy rain.	Improving daily. Ploughing and sowing going on every- where. It is difficult to got laborers, as all are engaged in	
BEAUGULFORK DIVINION	25	Ubstugulpore	22ud•	1:40	lood rain to the south, but scanty in the north.	ropor tad on, but more rain is very necessary. The aghany	Rivers riving repid- ly. General beams very good.
9449	86 87	Purbesh	" 19th		, ,	rice cannot be planted out. Bhadel crop improving. Aug- hany wante rain.	
# {		Southal Pergunnalu ,	, 19th	4/48	isneral rain throughout the district.	Prospects very fair at present.	

^{*} Tologram of the 92nd July received on the same day.

No.	Phytotak.		retur	te of p from Hatrist.	Bainfall at Sudder Station in inches,	Character of the weather in the district on far as known.	State and prospects of the orogs at date.	Bonabre
BISSA								
ſ \$ 5,	Cuttenck		[978. 32 94*	1:41		Measy rain argently mested.	
	Decemb			12th	0.13	para, and Juggotsing- para. Claudy, withsouth wind:	Weeding is going on in sarud	Choleen han broker
CARSSA LT SEAUR.	Poores	***	90.	a otal		roin in places. At Khoordhu, rainfall 1-24.	helds in Pergunnah Kotra- lang and Lambui. The wook grain sown last week in Pergunnahs Pachkudusland Serai has come up, and seems promising. The young sarud- plants of Pergunnah Lo- hongone suffering from want of rain. Weeding how con- mored in bealf fields in certain pergunnahs. Cotton in being gathered. Though the rainfull at Poored has been slight, there has been some rain in the mofussil, so that prospects are not very but. At Khourdha the paddy emps appear promis- ing, but more rain is very soon wanted to com- mence weeding. Should the weather continue on for some days appear pro- sone days and a six is now, damage to the crop by blight	in the middle guern in the middle guern guern, but not will two much fary.
40 CHOTA	Balasore	441	4-	19th	8.20	Steady penetrating rain in underste last auth- ciout quantity, except in the south, where it has been rather scanty.		
	Bouth West From	tier						
63.	Haparoobang'i		10-	19th	7.03	Reiny and sessonable; prevailing wind north and cast.	The rains seem to have set in, and the prospects of the cups have much improved throughout the district.	left attil preve
42	Lohardugga		00	194h	7-66	Wet and seconable	The rain has been plentiful and general throughout the district, and the reports of the crups from all parts are very favorable. In Palamow all fetrs are removed, and the prespects now are	
45	Singb≥oom.	***	יינ	12th	1-12	Cloudy more or less throughout the week. but rain holding off.	good. Reports generally unfavorable, and more rith very annea wanted. The crops are very backward in conse- quence of small rainfull, and in some places a good deal	
44	Мишькоси		,,	19th	3 -36	Favorable. Bain has been general all over the district.	of damage has been done. The prospects of the crops have considerably improved during the last week.	
ią: ≜≲ 6.	AM AND ADJACI HILLS.	ent		i				
45	Gosiparah	***	*1	19th	2·17	tremely but and close during the list first days of the week; a few showers of rain since	Want of rain for the cultiva. tion of the winter rice crops is felt everywhere; the state of other crops hopeful.	Publichen) (hon the whole, good.
44	Kannon	e e		21.nt+	1 911.	11th have amountate could the atmosphere. Weather bot, clear, and oppressive.	Wast of rain to much felt. Ten, cotten, and sugarcane erops progressing favorably. Aus crop nearly all reaped. Ealon diam is being planted.	Public health good

^{*} Telegram of the 29od July received on the same day.

† Telegram of the 31st July received on the 29th d.

No.	District.		Date return each tric	from dis-	Rainfall at Sudder Station to inches.		State and prospects of the grope at date.	Rayabee.
	M AND ADJACENT	T	187	a,				
47	Durrung		July 1	2th	6.82	Temperature compara- tively low; little breeze. Heavy rain.	Ploughing going on; ten prot- poets favorable.	State of publication of publication at the publication of cast disease continu
48	Nowgong		,,	1265	6:08	Regular seasonable mon- soon since Tuesday last, with very heavy falls of rain at intervals.	Aus dhan crop being resped, a good crop being antici- pated. The cultivation of the sales crop being actively carried on.	from the Jogs, themsel eirole. great deel of it fever and how compleints flyle about, but not a flatel type. A few came of cast to utrain skill of
49	Seebanger		., 15	?tin	9:16	Fair and hot days, Short showers principally at night.	The work for the males dhan grap goes on slowly; the grap will, it is feared, be a late one.	
50	Luckimpora		,, 15	8th	4-27	Rain fall every morning during the week but one. The horizon was generally covered with large clouds.	Prospects of the crops are good.	
	Naga Hills	•••	91	(SC)	0.55	Het and close, with very little rain anywhere.	The prospects of the late crops in the bills have not improved during the week under report. The hill people are now busy sutting their "kuni" dhan, the outtorn of which promises well. Nothing or little has been done to the recept land in the plains as yet, but there is still time to sow the winter crop.	
	Khati & Jyntonh 3	El ith	10	12 th	0.30	Cloudy, with light rains	Good, Indian corn is being harvested in some parts of the district,	
23	Garo Hills	•	jn	12th	3.94	Showery throughout the week. Not unseason able, as far m it has been ascertained.	The state of the crops is good, and prospects of the crops	

Published for general information.

CALCUTTA, STATISTICAL DEPT., The 22nd July 1878.

R. Kright,
Asst. Secy. to the Govt. of Bengal.

Weekly Report of Rainfall compiled at the Meteorological Reporter's Office.

Devinten.	Distract.	. OPATION-	Bain from Such Jitte to Site July	Rain from 6th to 12th July 1873.	JAN	PROB MAT UART 1874.	Ramanna.
			1678.	9 11 17 10 19.	inchas.	Up to date.	
-	PAL.			4 1 .	T	1.000	
	WHERE DISTRICTS	i .	Implem.	Inches.	Inches.	1878.	
		Burdwan to to	3'86 Nil	413	22.61	12th July.	
أم		Cutwa	1:46	\$ 4 0 5 79	14.80	ditta.	
	Burdwan	Bood-Bood	1'41 1'43	648 171	10°48 11'43	disto.	
	_ 1 1 L	Jehanabad	0.08	1110	12741	ditto.	
4	Benegorati Beerbhoom	Bapouerah	4.0H	8 23 2 44	18:78 29:69	ditto.	
3]	1	Midnapore	2 50 2 97	8-82	15 90	ditto,	
BONDAY'S	Midaspore	Surletta	\$ 9s.	271	18:28	ditso.	
副		Contail { Dy. Colle, 'a Office	1'57	1.03	12:34	ditto.	
- il		CExe. Bugn's Office	178	3:07	16:07	ditto.	
Ш	Hooghly {	Benampera	1.00	5 25 3 80	1531	ditto.	
Ų	Blowtsh Courtest Distractors.	Howralt	2.00	4.00	11.00		
	OBSTRUCT DISTRICTS	Sauger leined	2:607	1'90	10'83P	ditto.	
		Calcusta Dispaneary	1'S1 2'45	2%4 1.51	16-25 16-01	ditto.	
		Allpore July Busecry	2:85	1.76 6:13	14'17	ditto.	
ſ	34-Pergunnaha	Raracet	2°40 474	1'6L 4-23	11:11 21:27	ditto. disto,	
		Harripore	4'84 4'71	440	19:17	ditto.	
الد	1	Satkharah Barrackpora	3.62	318	18.81	ditto.	
Presentation.	}	Pura-Dum Kishungkor	2 23 8 52	1.48 3.99	10:70	ditto.	
8		Honzong	118	2·17 4·03	10.01	rilstu.	
	Nuddea	Choosdangsb	0.32	2:47 5:00	16.05 16.70	ditta.	
٦,	Ţ	Ranghat	1.83	3142	32.26 17.78	ditta.	ļ .
- [1	Nurali	1'44	1%1 1-63	2813 2844	ditto.	
Ų	Feeenze	Khoolnesh	NU 2799	2 68	18:34	ditto.	
	{ !	Hazirhaut	2'86	7-10 i	23 R9	ditto.	
	Ī	Recharatore	1:31	1°45 1°46	5-93 7-49	ditta. ditta.	
	Moorekedsbed	Oity Monrahedahad	0°80 1°96	931	7:06 10:11	ditta.	
Æ		Arimelpore	0.60	4'b0 5'86	11-34	ditto,	From 1st Fobruary.
	Dinagopore	Latgolia	0:54 1:00	2'05	84185	ditto.	1
IJ	Maldah	Maldali Benulcah	0°67 1°17	1'67 1 \$5	8:08 11:75	ditto. ditto.	
5)	Rajababya	Natture	NII 0°14	Not rec.	16:76 51:75	ditto.	
4]	Bungpore	Bhowanigungs	0'62 6'67	41tto 878	20:89 43:98	ditto. 19th July,	
- 1	Hogmin	Fitalya	0.48	2-71 1-09	16:03	ditto.	
·	Pubna {	Pubns	0.88	1.68	14'80	ditto.	
		(Telegraph Office	Not rec.	Not rec.	82.00	toth June.	
a f	Darjeeling	Darjouling { 1 oxpital	1:98	870	80'08	121h July.	
Park I			3:64	7:TR	8/F25	dilla.	
	Julpigores	Fallocatia	12'45 4 4'80	# 35 1145	70°17 87°37	ditto. ditto.	
000	Cooch Behar Tributary	Hodah	2.63	9:79	70'67	ditto.	
8	Bhuten Degara	Clocch Bolter	17:12	Not rec.	82140	Bih July.	
- 1	BASTERS DISTRICTS.				2012	Total	
	(Daoce	3-95	143	20'08	ikih July.	
-	Dagos	Moonebegungs	B*85 4 40	178 318	29.80	ditto.	
4	:		0:88	2:85	10148	ditto.	
-1	Parresdance	Manicksunge	414	1'46	23 748	ditto.	
	adiadechose 5	Gestondo	NII	2.27	16.69		
1	1	Burrianul	3:07 1:14	#16 4/65	52.44 \$7.13	ditto.	
1000	Bickergenge	Madaripote	1191 1113	1 64 5 50	20-66 39-15	ditto.	
34	1	Dowlet Khen	0.94	9.69	31.34	ditto.	
9,	1 1 1	Mymensing	334	2:28	88:06 21:61	ditto. Listo.	
9	Marinenning	Attenti	1617 0°40	1'10	16'48	ditto.	
	1111	Kishoregunge	1:37 11:0	\$'EL \$'19	98- 10	ditto. ditto,	
	1	1 - 4 - mar (1) (1)	B-80	4'50	a316	disto.	
	Hythec	Clashan	0.73	Not rea.	44'16	3th July,	Not received toth June to 5
	Hyther Contain	Cachar Hylekandy 0			90.19	TEMP SITES ""	
	Hythes	Hylakandy •	Mot rec.	1.67	m 4 - 4 4	3114	July.
	Rylines	Hylphandy Bayes Office Chittageny (Telegraph Office	3794 790. 0189 0190	# 80 2 61	24-06 25-86	ditto.	4шу.
	Hylines Checker Chatterpress	Hylenendy Moyah Chitteneng (Telegraph Office Cox's Fficar	3777	# 80 # 61 17-77		ditto.	4Wy.
	Hylines Chilangers Nonthinity	Hylekentdy Loyah Chittengong (Telegraph Office Cor's Plant Noskhally Corntlish	Not rec. 0'90 8'77 2'78 2'71	# 80 2*61 17*77 7*66 3*80	35 35 69 36 60 73 34 55	ditto. ditto. ditto. ditto.	amy.
	Hylines Challesones Northbooks	Hyleheatdy Koyah Chittagong (Telegraph Office Con's Phear Noskhally Contilish Blahmanbariah	277 278	780 261 1777 766	35 36 69 96 60 72	ditto.	amy.

FOR.	Decator.	Bration.	Bain from 28th June to	Rein from 51h to 19th		FEOR 197 ART 1875.	Time ages.
Dermanon.	20121141	BIRZIO.	51h July 1873.	July 1873.	Inches.	Up to date.	
BBH/	A.B.		Inches.	Inches.	Inches.	1878.	
		Patna	0.02	2 40	7:26	12th July.	
	Detec	Boiner	NI).	1'40	7 88	ditto.	
- ſ	Paten	Dinapore (Juli	9 93 1:30	200	8188	ditto.	
	}		3,10	1.50	4:5	ditto.	}
- 1		Nowadali	0.35 4:80	8.03	6.70	ditto.	
- 1.	Gyn {	Johnnehman	01 (5 ·	6:0n	7 10 10 10 10 10 10 10 10 10 10 10 10 10	ditto. dikto.	
- 1	(Acrab	0185	7145	1978	ditto.	
크	Bhatabad5	Susar	NH.	2.60	6.04	ditto.	
Pare	,	Mozufferjere	URN Nii.	472 171	1246	ditto.	
- 1		Durtchangada	0.07	4'91	10:43	detto.	
- 1	Tirbool	Hajipore 2 Madaubani m	(A)	ት ተደ ድሕቤ	12'85	ditto.	
		Sentanuarea	2-20	B'30	17:10	ditto.	i
ĺ	J.	Tajpore	0.03	5'86 5'48	16'01	witte.	
- 1	Barun (Seenn to the	0.38	1780	B718 10:02	ditto.	
Ĺ	Chomparun {	Rettich	1'03 476	9.51	19:52	ditto.	
	Monabyr	Monghyr	0.87	1724	7 10 5-67	ditta.	
		Immovie	5:48	1740	B.48	ditta.	
1	į į	Hauntulpore	0.43	0.01 0.48	6.92	ditto,	
5	Bhangulpore	Mudheypoords	3'13	1'60	12:00	ditto.	
E {	į.	Santorus	1911	3°22 0°17	8.0%	ditto.	
BROGITEDATES	Purposh }	Puraceb Kishengunga	型 排出 数/数别	2:73 2:11	16'80 16'81	ditta.	
4		Arranda	4165	0.33	25 %5 1476	ditto.	
m		Deophuz Juntara	Not rec.	5108 4/40	8.34	ditta	Not recorded 1st June to 9th Jul
L	Southal Personnabe	Rajmetal	2'35 6'31	1148	7'48 4'84	ditto.	
		Nya-Duoiska	3'70	1140 1186	18769	ditto.	
	A-151140-1	Godds	1'10	1.00	9:25	ditto.	
	ORIGSA.	(This seat the Office	4.54	0.04	10/60	ditto.	·
ſ		Cattank Triegraph Office	1'80 2'05	2°30 2°04	12:07	ditto.	
	Outlack	Jailport	3'30 8'90	0.20 2.21	19:56	ditto.	
أند		Juandalterence	4 68	4°11	391107	disto.	
Ondrea	Pourse	Patro Point	8:50 9:38	10.0	12:26 0:17	ditto.	
5	Pourse {	Kinneshik	2.32	118	11'81 14'63	ditto.	
E	i	Histodurusk	1.45	Nil	9.51	ditto.	
ļ	Balanore	dellacore	8116	0:45	7142	ditto	From 1st April, ditto.
Ų	Cottank Tributary	Chandbally	1.70	● 78	8.12	greeo '"	nijeto.
	Melinia	Sambalpore	Not rec.	Not ree.	479	Stat June.	
	CHOTA NAGPORE.						
	PROBLES PRINTER	r fell	-	-	R%7	leth July.	
	Hanareebaugh	Hazarsebaugh [Jall Disponsary	1.73	2'97 3'66	HYRP	ditto	
		Raucher	0.40	316 #181	11118 1117	ditto.	
	Loharduggsh	Palminos	0149	7.36	1894	ditta, ditta.	
	Manushoom	Chyebasia Premior	110% 0147	116 366	10581	diffo.	
	Manushoom {	Gobradpere	Not rec.	6/30	8.49	disto	Not ree, 22nd June to 5th July.
	ASSAM & ADJACENT HILLS.						
	Goalparah {	Goulparah	0/81	X-17	44ግሮ	ditto.	
		Bhodbres	296	910 914	57°23 33'15	ditto.	
	Samroop {	Burpettab	Of the	Not rec.	88112	6th Jaly.	Not rec. 16th to Hat Suns.
	Durrone {	Mungledyo	6'18	ditto	86 W7	ditto.	
	Nowgotut	Nowgong	7°18 5°11	Not roc.	38128 41168	12th July 5th July.	
	Beetsmileer	Golsochut	2*19)	ditto	34'30	disto.	
	,,,,	Nuzoezula	4/47	ditto		ditto.	
	Lunkumpore	Debrooghur North Luckimpore	ያ ነው። ይግዛ	ditto	46,52	ditte.	Not rec. 27th April to 19th
	N HID.	Maddys	9-46 (r46	elito	40'80	ditto ditto.	May.
	Khasi and Jyntealt	Shilling	2:26	ditto	29-10	ditto.	
	Ulik.	Ohermpoonjee	10:30	disto	146 22	dikto.	
	Onro Hillin	Tura	2-20	8794	D9 04	19th July.	
		Henares	975 970	Not rec.	1167 75160	5th July. 18th July.	
		Akyab a.	0.00	1,0190	1001	TOUR R. MITA.	

CALCUTTA, The 19th July 1873. H. F. BLANFORD, Meteorological Reporter to the Good. of Bengal.

Meteorological Telegraphic Report for the period 13th to 19th July 1873.

e e	1		- Harotoeter	liggometer	Тивино	MITTE.	Hame-	Winz)			117
Stations,	Dete.	Hour.	reduced to	reditord to pan level.	Dry.	Wet.	dity Sat.	Direction.	Valority.	Raiu.	Clouds.	Weather
-	July	1.										
f	18th	10	29-429 29-317	29:447 29:385	86°6 84°0	82:8 81:4	88 80	NE		0.10	CK. C	
- [14(5	10	20.456	29:473	61:9	70.3	01	WRW		0.10	William Co	0
4	1865	16	29-401 29-528	29:419 20:646	89°0	90'6 81'6		8 W		0.09	K	0
Caropera.	16th	16	39.902 88.133	20:451 20:523	8810	8118		SW		(F12 0704	K, №	0
3{		16	29 400 29:487	29 421	6816	HIPS	77	SS W	144	0.04	K	1
١,	174b	10	89-863	28:495 28:391	87.5 80.0	H11-0-	851 67	NE	-	U 16	S, K S	
Ė	18th	10	20:311	20 329 20 213	810	80°5	95 97	N E 8 8 8		1:20	100.000	n, d
- 1	19¢b	10	29:412	29:430	8616	88.0	91	88 W		0.59	C, K	
L	July			20:077	87'5	67.4	70	8	***	4.754		
- [18th	10	29:413 29:300	99°449 99°873	A.3 84	81 81	0-1 87	WNW	10:3	0:30	N	d, p, a, 1
اہ	14th	10	29 458 29 427	20:489	63	78	83	W S W	22-3	0.30	N	p. o. d b, 8,8000
Sareta letara.	1615	16	29.004	29:433	86 83	80 81	79 67	IN N IN.	23.6	0.30	N	physical property.
41	Little	16	29.481 29.481	29:470 20:639	R-I AB	62 62	63 63	# W	16.5	114	N N	<i>b.</i> мяде
81	17th	16	20-436	20.445	84	RI	H7	8 W	7:3	*14	N	d, a
31		10	20.973	20:477 20:378	87 82	192) Mili	79 01	N W W N W	16/3	110	N	0, N
	1817	10	20:341 20:270	20 347 20 283	83 81	82	91 01	WNW	206	3:00	N N	d.o.g.scuil
- 1	191h	16	29:138	29 44 6	89	83	7.4	8 8 W	17:9	1114	N	ō, m, n
Ļ	July	10		20.370	88	83	80	ssw	17.6	17*		h, m, m
- 1	181/1	10	29-433	\$9.714	61 83	80 70	M3 1	8 B	A-1	ù-10	K, KS	u, d, p, g
	14th	10	29'449	20 420 20 505	80	751	9.5	8 8 B	53.3	11081	N	d, 4, 9
. ģi	16th	16	291574	20°057	8E 78	7# 77	10 P. 10 P.	SSE	10%	0.30	К, К8 К8	2, 0
CRESTABORS.	181b	16	20-464 t	20 67 L 29 676	11A 58	89	83 79	WAW	914	4+1	C, K CK, K, K8	3, 0
뢆	17tb	16	29:394 28:414	20/4/97	89	80	91.7	SSE	p'4		K, KS	11. d, g
3		10	21/326	201478	84 84	(4) 70	83 79	EBE	7:3	0.30	N K, Ks	
í	· 18th	10	20 462 20 865	29:645	80 28	77 77	80 95	ERE	100	0 3o	N N	d. 9
	10tp	10	20:377	29 569	845	\$64.9	3-3	E 8 E	59	0.40	к, кв	6, w
· ·	July			36.40T	87	61	70	8 8 14	11 #	***	K, U, CR	
- 1	12:h	10	29 769 29 (83	20 703 20 613	91 97	78 7-1	39 30	S W by W	1#		141.71	e III
	18(5	10	29 745 20 050	20-775	69	74	4.6	11,	18	0.82		e cloudy.
- 1	14th	10	20.765	20.756	93 F12	71	37 29	W by N W	19	100		£ '
뒣	15(b	10	29:028 29:763	20°654 20°785	90	70	48 1 53 1	N N	13	0.14	11# 4+A	67
MADE	16th	10	201760	290004	92	78	51]	8 by E	18		200 190	e'
Ä		18	29:634	2017-7-80 2.14661	88 91	74 78	40 53	S W)2 B	0.7273	4	cloudy
	L7th	10	29°761 29°613	20:761 20:643	102 i	71 78	41 31	W by N W by S	17	0.01		6
- 1	18th	10 16	20-711 29-662	20-741	01	76	47	W	14			Wi C
	July	1	i	30,293	99	76	90	W by N	13	61-	F1 111	ł .
	1.8th	10	10000	1 184	A1 89	78 76	96 74	W S W	4:1	***	KS, N, C	d.
	148h	10 .	50.92F	901518	#12 80	79 78	87	8 8 W	4:3	0.40	RS, N.C	1º
. 1	1846	10	201503 291377	201571 201680	80	77	91 86	W S W	5.7 3.3	0.30	N. C.	,
Person.	16th	16	291467	20°41-0	84	71) 81	72 72	WSW	4·3 2·1	0.30	CK, K, N, C C, CK, KS]
£]	17th	10	X0.100	29:402 29:547	#3 E#	79 78	76 78	WHW	40	0.45	K, KS, 8, C KS, 8, C	1
Ťį	18sh	10	20 830 29:408	291442	ИĞ	79	76	WSW	6°8 6°4	0.10	RN. N. C	
. 1		10.	\$8.850	291362	84 84	78 71	82 70	W W	6.3	100	KS, N, C N, G	
	19th	10	\$9.357 \$9.376	29°4:10 20°357	96 87	29 29	72 68	WBW	510		CK, N, C	
	July 18th	10	90,483	1			!		0.0	4-1-2		_
22 to 23 to	1444	16	261 61 4	29:535	80 83	70 90	98 87	,8 E	6°2 9°3	U-100	150 140	g
		10	29 9 (8)	29:042	#1 #1	80 80	05 05	S W	4/2 2/5	0°80 0°30	181 199	20
	18th	10	29'548	29-07A	78	78	100	ENE	0.3	2.70	-44	T
A Section	16ch	10	19.685	29:500 29:615	83 70	70 78	95	8 S E	071	0:30	184 4-9	#
	17th	10	20 640 20 640	29 591 20:571	78 78	77 78	100	8	0.8	\$100 \$100	.,	7
- [106	10	39.491 39.491	89'613	81	79	91	K K W	8-5	0.50		P
	19tb	2.0	201461	39 503	86	69 8)	87 67	R	4/7 : 00	1/80		9
	100	1 30 5	29 67a 39 476	99'803 90'497	79 86	78 Bl	95 91	8 W	07	414	harri.	8
-10	4.		']	-	"1		"	41+	,,,	}

folioity of wind in miles per hour.

Per 1914 July 1878.

Results of the Meteorological Observations taken at the Surveyor-General's Office, Calcutta, from 15th to 21st July 1873.

		Ser.	Ти	i katoati	ETER.	1		dew	dify.	W 128	D.				
Mounth.	Date.	Mean reduced barometer.	Highest remiing.	Irmost reading.	Max. solar radi-	Mann dry balb.	Mean wet bulb.	Computed mean	Mean degree of bumidity.	Prerading direc-	Max. pressure.	Daily velocity.	Rain.	Moon's phases.	Germat Remares.
		Inches.	0	0	0	ς.	0	O			ь	Miles	In.	-	
July	löth	80:40]	89°U	70%	141.0	82.6	81r8	7000	0'91	8 W		148.0	0.10	***	Clouds of different kinds. Thunder at \$\$ & \$ v.m. Lightning at \$ v.m. Slight rain between 10 & 11 a.m., from 3 to 4, at 6, 7\$, & 6\$ v.m.
	18th	-473	98.9	B) ()	128-0	810	81.8	Britit	189	SWASSW		31.4	0.07		Clouds of different kinds. Thunder at 7 & 8 r.m. Lightning from 7 to 11 r.m. Elight rain at 104 a.m. If hetween 0 & 7 r.m.
	17th	1628	91.0	81.0	1420	81-6	821	No-4	-88	Variable.	1.0	07 *6	9.48	•	Stratoni, cumuli & over- cust. Thunder at ** & 9 r.m. Blight min at 3.112, 122 a.m., from 91 in 6 & at 81 r.m.
	19th	9.10	R2+9	79:5	f**h	80°ā	7 9-0	735-0	aar	N N K & Variable	***	1840	7-80		Chiefly overcast, Thunder at 2 P.M., min nearly the whole day.
: !	10th	1370	80°3	70-5	L40*0	8810	808	78-8	186	ssw	I •0	230:0	0:31		Overcast, and camuli. Lightning on W at 8 P.M., rain between midnight and 1 A.M.
	20th	-361	- 00.3	82:0	1400	86.9	82.5	70.0	.01	ss W	F11	103:3	0.02	***	Stratoni, euranii and clear, Thunder between 2 & 3 r.m. Slight rain at 32 r.m.
	21st	-612	93.0	81-8	1380	84/2	82-1	80%	-66	SSW&Sby W		92:3	D-66		Claude of different kinds. Thunder from 1 to 5 p.m., Rein at 1 & between 6 & 6 p.m.

The mean barometer, as likewise the dry and wet bulb thermometer means, are derived from he twenty-four hourly observations made during the day.

The dew-point is computed with the Greenwich constants. The figures in column 10 represent he humidity of the air, the complete saturation of which being taken at unity. The receiver of the ower ram gauge is 1½ feet, and that of the accommeter 70 feet 10 inches above the level of the ground. The velocity of wind, as indicated by Robinson's anemometer, is registered from noon to noon.

The extreme variation of temperature during the past seven days		11.2
	.,,	
The max, temperature during the past seven days	101	8 F - O
The max, temperature during the corresponding period of the past year		90.5
The mean humidity during the past seven onys		0.88
The mean humidity during the corresponding period of the past year	***	0.88
		Inches.
The total fall of rain from 15th to 21st fby lower rain gauge fby anemometer gauge	***	3.55
	4.04	3.15
Ditto ditto ditto, average of nincteen previous years	***	2.58
Ditto ditto between the 1st January and the 21st July	124	19:09
Ditto ditto ditto, average of nineteen previous years	1+1	88.02

Gopzenauth San, In charge of the Observatory.

The 22nd July 1873.

Abstract of the Results of the Hourly Meteorological Observations taken at the Surveyor-General's Office. Calcutta, in the month of June 1873.

LATITUDE 22° 88' 1" North. Longitude 88° 20' 34" East. Height of the eistern of the condard barometer above the sea level, 18'11 feet.

Mo	NTHLY RES	ULTS.			Inches.
Mean height of the barometer for the Max, height of the barometer occurred Min, height of the barometer occurred Extreme range of the barometer during Mean of the daily max, pressures Ditto ditto min, ditto Mean daily range of the barometer during	lat 9 r.m. on the lat 4 r.m. on the graph month		***	***	29-508 29-683 29-324 0-357 29-501 29-443 0-118
Mean dry bulb thermometer for the me Mux, temperature occurred at 3 P.M. of Min, temperature occurred at 6 and 7 Extreme range of the temperature duri. Mean of the daily max, temperature Ditto ditto min, ditto Mean daily range of the temperature defined and daily range of the temperature defined from the daily range of the temperature defined from the daily range of the temperature defined from the daily range of the temperature defined from the daily range of the temperature defined from the daily range of the temperature defined from the daily range of the temperature defined from the daily range of the temperature defined from the daily range of the temperature defined from the daily range of the temperature defined from the daily range of the temperature defined from the daily range of the temperature defined from the daily range of the temperature defined from the daily range of the temperature daily	n the 2nd r.m. on the 13th ng the month			***	87-9 103-0 78-0 25-0 96-1 82-1 14-0
Mean wet built thermometer for the m Mean dry bull thermometer above mea Computed mean dew-point for the mor Mean dry bull thermometer above com	an wet bulk the	,		***	52·2 5·7 78·8 9·1
Mean elastic force of vapour for the mo	outh	1+1		т.	Inches. 0-964 oy grain.
Mean weight of vapour for the month Additional weight of vapour required for Mean degree of humidity for the month	or complete satu		 g unity		10:25 3:39 0:75
Mean max. solar radiation thermometer	r for the month	14*	***		141·4 Inches.
Rained 16 days,—max, fall of rain dur. Total amount of rain during the month Total amount of rain indicated by the g the month Prevailing direction of the wind	h auge* attached (}	1:64 4:30 3:44
reasonage and man of the aind				22	W & S.

Reight, 70 feet 10 inches above ground.

GOPEENAUTE SEN.

In charge of the Observatory.

The 21st July 1873.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

ORISSA CIRCLE.
Statement showing the impount of Traffic and Tolks on the Kendroparah Canal during the month of May 1878.

BRAMINEE DIVISION.

	LOCAL TRAFFIC.	TRAF	FIC.			Ä	TRAPPIC DRIWEEN CULTACK AN	WEEN C	STIACK .	<u> </u>	SEA BOARD	RD.	_	STOR	STORES AND MATERIALS IRRUATION WORKS.	NATERI OX WO	ALS FOR	æ			ABSTRACT	ACT.		
Maters of	dipproximata value of tempo.	Manage spenny	PACIFICATION STATES	Ton mileage.	Tollage,	Number of boots	Nature of cargo.	Approximente value	FOUNTAIN BEAUTH PARTIES OF STAFF.	Sales in the second		Tollage,	Number of beats.	Nature of	A ppereimate value of the	Towards controlled to the state of the state	Ton Inches	Total	altered to vaction id	Nature of traffic.	Value of traffit.	Of samply heats.	Ton toileage.	Tollago
	4				85. A. ₽	<u>a-</u>		# <u></u>				Bs. A. P	F. Local	LOCAL TRAFFIC.	ž				A. P.		첉		Ä	Β. Δ.
Paddy Rice Jaggery Salt: Units Comits seed	20 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	6 →	****	1 ; ; ; ; ;	20°00000000000000000000000000000000000	30000000000000000000000000000000000000	86 Fuddy 1 Elec 1 Loc 99 Spices 4 Hides	9.000 111.000 100.000	19.24. 0.55.	11111	6) F C G H	231 P P P P P P P P P P P P P P P P P P P	600000	Brushwood Gyler Course Jime Bambeo Do, 400 in No.		20 1727 33 174 16 117		80010	89500 02500	121 Incultumberaid 259 Through ditto Stores and ma- terials for Ir- rigation Work	451,043 1,473	1,473	10,187,	7125 71 4 666 9 12 51 8
Bemboos			i da ej	1 1 1	200		Eme	188	17.0	1 1 1 	- F	+012	- O O		g.	914. 1,168 43	2	632 6 1	10 8	5 Local traffic 93,Through disto	17,384	3 7	\$1,688	300
SEmpty	: : ⁸	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 (5 pg	i i i	- 5 0	N 91 87 6		0.00 (1.00) 0.00 (1.00) 0.00 (1.00)	100 00 00 00 00 00 00 00 00 00 00 00 00	111		C 22 22 2			Throcom Traper.	29 1,883	i -	513		1::	! ! !	111	:); ;	111
imbers 27 in	3	-	1	i	91 B	- 6		100		f : !		297 201	80 ↔ 61				111		:::: 000 000	111	1::	111	1 ; ;	: : :
1 :	: :	1:	11	1 1	7 1							80		Ene		-			86		11	111	1 1	
! i	11:	1 4 1	11	111	:::	DO- 40	Slikingty 5 Sambon 2 Timbers		2 6 8 2 6 8					Firemond	15.80 4.3			191		11:	1 1	1 1	11	: :
: 1	11			: :	11;	Rfisó	40			: : : :		(P)	M.			0,271		12.	9 :		111	: : :	111	: : :
1	: :	1 +	1 1	1 3	: #	2	No.	٠,	-	:		5	: :	74	: !	: :	1 1	-	1 4	1 *	::	1	11	1 1
	14,741	MASS 10,210		283 10,167	188 11	230		4.01.043	41.258 1.473	578 63 876	1	836 9 1	2		17.38	17.385,14.478	R14:21 KR4:80%		0 0 43	T es	405,49259 411	617	BA ARRI DER	9 8901

specially up of the Chiadhalles ruth tells against the Zendungarah Canal in the matter of passenger traffic. I forcy quite as usary passengers now go by Chandhalles as by False Foint I can got no satisfactory readon for the falls of the second in the passenger traffic. I forcy quite as usary passengers now go by Chandhalles as by False Foint I can got no satisfactory readon for the falls of the fall

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL

ORISSA CIRCLE.

Statement showing the amount of Traffic and Tolls on the Brakmines Division High Level Canal for the month of May 1873.

LENGTH OF CANAL OPEN-37 MILLS.

		ľ.	LOCAL TRAFFIC.	FFIC.						STORES AN	TAM OT	BES AND MATERIALS FOR IRRIGATION WORES.	FOR IR	RIGATE	ом ко	R 39				Y	ABSTRACT.	E		`
- Elimod	Matero of carps.	Approxi-	pproxi- Approxi- make make regist value of	TORBASH, SECTORS OF SEPTEMBER	1 1 1 1 1	Ton tolkenge.	Tollege	To vedeni	10 7002011	Nature of cargo.	Approxi-	J 401 F		TOBESON, EXCESSES OF EMPTY SOARS.	Ton		Tollage.	Jo sequin	Pature of traffic.	Weight of cargo	Value o	- 1 6 m to	Too	Tolings.
-1				Macnds, Tone.	Tone.			P.			·		1	Manuda. Tops.				N				posits.		
_		_	á	_			Ra. 4t. P.	D.				Be		_		H.	A. P.				- Bas.	-		Re a m
2	Birne	1,894	688	2,877	100	1,971	1,271 19 14	0	고 8	Lock gets	-:	92 290	1,162	- PG-	1,435	#	0 *	8	Private mer-	4,319	11,606	60		1 22
	q q	100	000	128	9-		110	20	40	d.	1,600	=	8.403	#13T 6	2,006	23	0 4	8	Gort, etores	8,550	1,166	301	6.894	UP & o
-	Oil cale de	200	9 9	2 7	4 00	4	200			Lock machiners			_			7	* 9	:	47	1	:	Ī	. :	
			13	-9		8	0				: :	-	2000				4	:	***************************************	:	:	:	:	-
	rigion.		**	å	-	83	0		16 Et		:		. :	_	2,135	10	0	: :			1	:	î	98.00
	Oil, Ac.		130	90	=	38			<u>5</u>		-		_			_	40				:	:	÷	A.
-		8,00g	10,010	000	蹇	1,830	12 21		5	Lyn rule	¥	100	0000	13/2	84.8	4	10 0	:			1	-	;	1
. 1		4.	1	1	4	1,516			:		+-	4	:	:	;	_	:	+	:	1	: 1		:	-
_	Passengers	:	Ē	1	:	‡	5 13			*** 34.	1	1	:	:	:		:	1	:	Ξ.	1	: ;	- :	***
8		4818	11,606	086.9	218	6,427	70 13	8	81		3,650	1,168	8,433	3 : 301	B.R94		9	2		S RAD	1			

The collection of the same month in last year in Re. 98-18-7. The corresponding return for the same month in the last year shows an ingresse of 18 per cent, on the gross total.

DEPARTMENT OF PUBLIC WORKS, IRRIGATION BRANCH, BENGAL.

OBISSA CIRCLE.

Statement showing the amount of Praffic and Tolly on the Taldundah Canal for May 1873.

LENGTH _ CANAL OPEN-271 MILES.

	Ä	LOCAL TRAFFIC,	APPIC,					STORE	SAND	STORES AND MATERIALS FOR IRRIGATION WORKS.	ALS FO.	R IRE10	ATION	I WORK	eñ.			E: 4	ABSTRACT	<u>د</u>			
	Brrzo	SPROXIMATE.	Tornagh.	98			10.9130		-	Apportments		TOYHAGE.				-stino		'(d) Li					
And the contract of the contra	Weight of	Value of	Mernets. Tous		Ton milesge.	Tollage	of to wedown after	Nature of cur	fourgo Weight	Weight Value of		Manada. Tone.		Ton miles To	Tollege.	d 10 tedann ≅	Nature of traffic.		Value of truffic.	Топраве	Ton milange.	Tollage.	Kanaufs.
	17.7	a				Ra. A. P.	_			Mds.		_		- #	Rt. A. P.	EI -		W.	24			Bs. A. P.	
Paddy Plaggary 16 Straw	1 1	1,196	3,304 980 4,089	118	1,180 876 736	9 5 4 14 6 6 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	04	Laberite			92	9 919'91	693 8,	8,903 41	2 8								
Charcosi House farmity		28	2.00	24	000 800 800 800	101	1	::			 }			1 1	f :	<u>.</u>	78 Local traffic	÷	Q.867	200	6,370	9 29	In May 187
Line	1 1	10	1.85	49 00	12.00	94	-	Lime				707	10	: F	100		1 :	: :		: :	i ;	1 1	trafferedi-
26 Traber		8 8	200	8	35	6 60		11			2				1 1	4.9	Toport treffic	1 1	107	10	11,862	121 92	Re 23-10-9.
	1 2 3	8	; e :	111	1 :00	-02 -02	S	Empty					*f	3,546 11	: # :	:::	:::	: : :	1 4 1	: : :	1::	1 1 :	Works Kg.
Denoutrage of 7 boats for \$18		:	!		į.			1;:							;;;	111	1 : 1	+ 1 +	: : :		111	: 1 1	
R	1	9,857	086'6	88	6,370	57 E s	1				124 17	17,38c t	818	11,861 56	66 15 7	1 12			2,991	120	17,231	114 4 11	17-11-6

N. B.-There has been a considerable increase in traffic both local and for irrigation works as compared with the same month of last year.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

Statement showing the amount of Traffic and Tolls on the Hidgeltee Tidal Cano! for the month of May 1873.

LENGTH ... CANAL OPEN-3 MILES.

Value of exclusive Ton Tollage, Previous pase, Remarks. Tollage, Previous pase, Thinker, No. 2 1.50		٠		1007	LOCAL TRAFFIC.	FFIC.								ABSTRACT	. 1				A process		
Weight Walled Total Walled Walled Total Walled Wa	Weight Walter Weight Walter Weight Walter Weight W	1 1				FPROXIT		STEREGRESS STATES	1	Too	Tollage						tanta, To			orresponding mouth la nerious year.	Benarks.
Fig. 18	Fig. 2 Fig. 3 Fig. 4 F	a di			j≊ %	cight V	pheof p		1	माग्नेब्बहुर.		boats.					empty wile outs.				The sky we go
Fig. 27 Fig. 28 Fig. 350	Marie Mar. 2						á							 	Bs. A	aî a		ä	- Ta		
1 1 2 2 2 2 2 2 2 2	1 1 2 2 2 2 2 2 2 2	H	Timber,	No. 2		1	9	2	1	i	0 10 0	R	Local							0 4 998'8	
Column C	150 150 175 150 175 150 175 150 175 150 175 150 175 150 175 150 175 150 175 150 175 150 175	rei e	(# HE A	kakons 18	_	-	3	200	ŝ	ž	0 51 1	÷		;	-					*******	canal being closed for a
100 100 175 1,000 175 1,000 1,00	100 100 175 120 175 120 175 120 175 120 175 120 175 120 175 120 175 120 175 120 175 120 175 120 175 120 175 120 175 120 175 120 175 120 175 120	-10	V 450F		_	-		3	:		4:	1	and are	:	abe eda				_		enchristion. The tolk
1,880 7,771 4,825 165 465 29 2 6 20 1,680 7,771 0 0 165 495 29 5 0 0 2,306 8 0	190 24 25 26 27 27 27 27 27 27 27	-	Tile brich	*	i	_	200	201	i	ŧ		;	144.44	Ē						Part acco	realized have been from the
100 1100 1170	100 100 170 170 170 170 170 170 170 170	10	Toping of	T T	_		000	7.20	;	:		1	484 944	:	******	_		_	_	:	
25 400 400 400	25 900 14-5 1,200 15-5 15-5 15-5 15-5 15-5 15-5 15-5 15		Partie	24		_	8	175	į	:		:	945.474	i	*** ***	_	_	_	_	44 1 184	because the Korposm
1,880 7,771 4,885 166 468 29 2 0 80 1,880 7,771 0 0 166 495 29 2 0 2,306 8 9	150 150 150 150 150 150 150 150 150 150	10 (Į,	¥			000	17 C		1		;	414.418	-	-	_	_		_	нин	Firer and the extension
1,690 7,771 4,655 166 465 29 2 6 20 1,630 7,771 0 0 166 485 29 2 0 2 2,966 8 0	1,680 7,771 4,625 165 405 20 0 20 10 10 10 10 10 10 10 10 10 10 10 10 10		FLT-W000	=			945	34.		1		į	4.7.4.	:					_	*******	Charles to Gowletely.
1,689 7,771 4,725 165 465 29 2 0 30	1,680 7,771 4,625 166 408 20 2 0 80 1,690 7,771 0 0 166 495 29 0 0 2,366 8	-	ga	¢	_		69	027	:	;				-	******		_	_		:	
1,680 7,771 4,625 166 405 20 2 0 20 1,620 7,771 0 0 166 495 20 2,306 8	1,680 7,771 4,625 165 465 29 2 0 20 2	PI 1	Minchistracian	5			3,000		:	1		1		:		_		_		41. 641	J. E. V.
7,771 4,895 186 495 29 2 0 80 1,889 7,771 0 0 166 495 29 0 0 2,866 8	7,771 4,785 166 495 29 2 0 20 1,821 7,771 0 0 166 495 29 0 0 2,306 8 N.B.—Tonges shown above is of the boats, not of the cargo.	4	Sapty .				:		;	1		i	****	;							
	N.B.—Toursee shows above is of the basts, met of the cargo.	8			'n	ļ	7,771	4,625	166	495	QII			1,63	7,731	!	<u> </u>	8	0	-	
	AT LD IN ORDERSON SHOWN WHOSE IS OF EIGH DOORSON, MOT OF THE CATEGO.				-	-				9	1						- 				

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statement showing the amount of Traffic and Tolls = the Midnapore Section of the High Level for the Month of May 1878. SOUTH-WESTERN CIRCLE.-COSSYE DIVISION, LENGTH OF CANAL OPEN - 24 MILES.

Joseph See See See See See See See See See Se		TOTAL THREE IN	ಟ	1		_	STORESAND		ALS POL	Materials for Irrioation wores.	TION A	VORES.			AB	ABSTRACT.			_	
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A. J. Hubhen, O.R., T. Hubhen, O.R., Rough For Offs. Joint-Socretary to the Government of Bengal in the P. W. Dept., Irrigation Branc

The 1114 June 1873.

Weekly Return of Traffic Receipts on Indian Railways.

EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for last two days of June 1873, on 1564 miles open.

						1 -1 / /
		COACRING TRAPFIC.	И квенаны:	IPR TAD MINKET:	L Тилуяс.	
	Number of passengers.	Coaching receipts.	Wright carried.	Recei	pts.	Total traffic recespts.
		Ba. A.P. B n. d.	Mds. Frt.	26. A. P.	# 4. d.	₽ x d
from traffe for the week	7,695å 49	4,976 13 B 456 4 2 31 12 19 2 18 4	13,921 28 80 0	5.200 14 7 33 9 10	482 6 U 8 1 7	938 9 2 6 19 11
Por previous 80 weeks of half-	891.9404	6,49,301 ft 2 88,877 14 1	3,313,505 26	30,79,056 7 6	71,392 4 8	134,270 B B
Total for half-year	9,119,638	6,47,27H S 11 59.884 0 S	3,220,427 22	10,86,313 0 1	71,874 9 8	131,200 U 11
Grinta sinos.						
Potest for last day of June 1872	13,286)	3,520 14 0 S25 11 W	51,418	12,689 15 5	2,025 16 6	2,340 2 0
Per mile of railway, corresponding week of previous year	65	25 8 10	329 0	241 Z 4	12 18 9	76 0 1
vious year	8,67,921	8,38,808 11 B 1 40,363 B 10	5,759,627 25	7,15,415 # 31	63,570 18 6	114,848 1 4

EAST INDIAN RAILWAY-JUBBULPORE LINE.

Approximate Return of Traffic for first five days of July 1873, on 223; miles open.

Potal tradic for the 5 days	3,7(0)	7,894 15 7 33 9 8	42 x, d, 67 ii 19 2 3 11 7	Mila. Srs. 47,471 20	Re. A. P. 11,374 I 0 50 14 8	2. s. d. 1,062 12 6 5 18 6	£. s, 4. 1,719 11 6 7 15 11
Total for 5 days COMPARISOS.	3,701	7,364 16 2	076 39 · 2	47,571 20	11,371 1 6	1,042 18 6	1,719 11 6
Potal for corresponding il days of previous year. For mile of resilvay corresponding 6 days of previous year.	3 ,600	8.127 9 6 84 6 10	745 e U	34.699 50	8.4 № 0 Л 37 10 0	774 4 9 8 9 8	1,519 1 3 6 15 11
Potal is corresponding date of pre-	11.400	8,327 D 0	740 0 0	34,484 20	8.444 0 B	778 0 0	i.8t0 1 3

EAST INDIAN RAILWAY-MAIN LINE.

Approximate Return of Traffic for first five days of July 1873, on 1,280 miles open.

					;		
		Rac Ac P.	K. S. cl.	Mds. Brs.;	Ba. A. P.	£. s. d.	& a. d.
For previous weaks of half-year	R5,760	91,859 4 9 1 71 82 3	8,4241 6 II 0 11 7	461.880 89	2,11,665 1 1 1	19,402 12 7	27,823 1 6 21 14 9
Total for 6 days	85,700	DI,NGB 4 9	8,450 8 9	461,559 2u	2.11,665 1 a	10,40Z 13 7	27,525 1 6
COMPARISON.							
Fatal for enresponding 6 days of gravious year. For mile of railway, corresponding 6 days of previous year. Fatal to corresponding date of previous year.	88,978 88,070	\$401,585 G 4 79 8 4 1.01,585 6 4	9,203 13 3 7 6 3 8,203 III 3	462,696 SB	8,40,250 11 6 184 11 0 2,49,252 11 0	32,844 3 4 17 17 0 33,849 3 4	32.161 16 7 86 2 3 92.161 16 7
**************************************			.,		.,,		

EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for first five days of July 1873, on 165; wiles open.

			Rac & P.	■ a, d.	Mds. Srs.	Ra. A. P.	E e. 4.	# s. d,
ligital tradits for the week		23,6811	14,329 3 0	1,313 10 2	71,778 20	17,346 + 1	1,588 29 2	2,903 11 4
Dr per mile of milwey.	1+11	151	pi u a į	8 7 10	459 0	210 33 H	10 8 \$	16 11 10
Setal for 1 week		23,5844	1+,820 0 0	1,913 10 9	71.770 20	17,345 6 1	1,5% 10 2	2,968 4 4
Caniba Mison.	Ì	-						
Could for Brid & days of July 18	1	24,0024	10,918 & 11	1,375 7 16	1,47,612 35	26,248 10 L	9,316 \$ 19	3,591 13 4
Per make of thilway correspond wedt of previous year	ling!	287	88 14 6	A 8 6	687	1411 7 5	14 18 0	23 18 0

EASTERN BENGAL BAILWAY.

Approximate Return of Traffic for week ended 12th July 1873, on 1864 miles open.

g v man man garan v Man den den den den den den den den den de	c	олению Твав	vić.	MERCHAND	en and Hinerat	Trappio.	Total traffic
	Number of passengers.	Omehing	receipte.	Weight carried.	Receip	di.	Popežpite.
Total trains for the week	20,735 1591 83,5454	Re. A. P. 10,084 0 6 121 15 1 44,859 3 0	£ 4, d. 1,74) 8 5 11 8 7 1,313 10 ±	Mda. Srp. 85,358 9] 646 0 7),770 29	Rs. A. P. 17,342 7 9 110 2 10 17,346 0 1	6 e, d. 1,860 11 8 10 8 9 1,560 10 8	#C e, d, 6,550 10 6 #E 5 7 1,005 8 6
Total for Sweeks	58, 204	31,415 13 H	8,002 16 7	1,67,128 384	84,587 7 10	8,170 19 6	8,985 11 0
Total for corresponding week of previous year. Per mile of railway corresponding week of previous year. Letak to corresponding date of previous year.	28, 580\$ 1903 88,000	16,500 d 10 105 lu lt 50,632 l2 b	1,516 \$ 4 0 13 0 2,501 10 2	1,64.482 39 1.031 0 2.72.008 86	41,074 to d 202 7 4 66,348 4 7	3,765 à e 24 1 2 6,081 9 4	

NULHATTEE STATE RAILWAY.

Approximate Return of Traffic for week ended 12th July 1878, on 274 miles open.

		Commence of the commence of th					
		Ba. A, P,	E s. d.	Mds. Brs.	Ru. A. P.	£ 1, d.	A 41 12.
Or per mile of ranway		1,000 0 0 87 0 0	3 12 0	8.43 6 - 0 195 - 0	285 0 0 15 0 0;	18 6 0 1 9 4	189 6 D 4 L4 O
For previous I work of half-year	School	451 (I) (I)	63 3 0	2.312 B	222 W W T	22 + 0	B4 Ø 9
Total for 2 weeks	2,2743	1,439 0 0	163 0 0	5,726 U	6HI # #	40 12 4	K15 18 0
	4141-4			.,,	2-7-1		·
COMPANIEON.					-		
Total for corresponding week of pre-						1	
ret talle of railway, correspond-	4+1418	191 16	ss:44+		******	*****	1
Total to correspond that date of pre-			897418	F1F84F	*****		*****
Apriles 2 ters	117-11	11,511	*****	L11***	1	1 4 4	

CALCUTTA AND SOUTH-EASTERN STATE RAILWAY.

Approximate Return of Traffic for week ended 12th July 1873, on 28 miles open.

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	, '	Ito. A. F	þ	E A	d.	Mds.	Ига	Rs. A. P.	B s. d.	£ v. gl.
Total traffic for the week	4.476 100 3,747	763 0 27 8 628 0	0	76 6 2 15 62 16	Ü	17,029 108 15,169	0	523 () () [8 8 0 275 () ()	32 d 0 1 17 e 27 10 d	128 12 0 4 19 (I 90 6 9
Potal for 2 weeks	4,223	1,491 0	ſi.	136 2	₽	32,1%	Ð	70N D D	70 hd Q	419 7h 0
Comparation.										
Total for corresponding week of provious year	4,184	760 4	0	7 8 Q	ď	15,575	Īα	614 0 0	48 8 9	117 B 8
weak of previous year	140	27 2	8	2 14	5	484	83	14 15 7	107	6.6.6
Becalog left *** *** ***	8,012)	1,426 8	u	162 16	5	27,103	В	759 15 3	75 7 0	218 4 S

RESISTERED No. 29.3



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, JULY 30, 1873.

OFFICIAL PAPERS.

Non-Subscribers to the Garkets may receive the Superinners separately on inequient of Six Regues per annum if delinered in Calcutta, or Paeler Runers if sent by Post

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Proceedings of the Council of the Lieutenant-Governor of Bengal for the purpose of making Laws and Regulations.

Saturday, the 26th July 1873.

Aresent:

HIS HONOR THE LIEUTENANT-GOVERNOR OF BENUAL, presiding.

The Hon'ble G. C. PAUL, Acting Advocate-General,

The Hon'ble H. L. Dampier, The Hon'ble V. H. Schalch, The Hon'ble Lord Ulick Browne, The Hon'ble C. E. Bernard,

The Hon'ble Moulvie Abdool Luters, Khan Bahadoor,

The Hon'ble T. M. Robinson,

The Hon'ble Rajah Joteendro Mohun Tagore, Bahadoor, and

The Hon'ble Baboo Digunder Mitter.

THE HON'BLE MR. BERNARD took the oath of allegiance, and the oath that he would faithfully fulfil the duties of his office.

EMIGRATION TO THE LABOR DISTRICTS.

THE HON'BLE THE ACTING ADVOCATE-GENERAL moved that the time prescribed for the presentation of the Report of the Select Committee on the Bill to amend the law relating to the emigration of laborers to the Districts of Assam, Cachar, and Sylhet, and to regulate contract labor and service, be extended for one month. He regretted to say that the Committee had not been able to complete their report. The Bill was in progress, the whole matter had been carefully revised, but it would require a little further time to complete the labors of the Committee. In addition to their labors on the Bill referred to them, there were other new matters which required consideration; and for the purpose of devoting their attention to those subjects, he asked for this further time.

HIS HONOR THE PRESIDENT said, before this motion was passed be wished to say one word in order to ask the Members of the Select Committee and the Council to give their serious consideration to a question radically affecting the Bill, which had been raised in a correspondence between the learned Advocate-General and himself. His Honor was very far from asserting that the proposition submitted by himself in a very rude and rough form was the right thing to do. But at the same time he might venture to say that the more he heard and the more he had seen of the opinions of those most competent to form an opinion, the more he was inclined to think that there was something in the proposition which he had submitted for the consideration of the Committee. He was very much impressed with the belief that it was not expedient in any manner to check emigration to districts where labor was scarce. In some parts of India the population was overcrowded, which led to considerable evils, unhealthiness, and disease: on the other hand, in other parts of India, and notably in the Provinces of Assam and Cachar, there was a want of population, and it was the supply of population which would develop the growth of produce and the sanitary condition of the country, and produce wealth, health, and contentment in future generations. His own inclination was to say, God forbid that we should do anything to check emigration to these districts; on the contrary, we should promote emigration to the utmost extent of our power. Well, that being so, it seemed to His Honor that if there were a question whether we had over-legislated in restriction of emigration, or whether, perhaps, not having over-legislated, matters had so far improved that in future the area and scope of legislation might be diminished, that was an important matter, and one which ought not to be lightly passed over. It appeared to His Honor that we ought not to pass a new Bill without fully considering a question of that kind. Although his own personal experience was comparatively small, looking to the replies that had been received from some of the most experienced men, something was to be said for the proposition that had been made. Hon'ble Members who had studied the replies received from merchants and planters interested in the subject, would see that a great deal had been said in favor of the proposition.

Then our position was this: Hon'ble Members in the Council, and he as head of the Government, were bound impartially to look to the interests of all the parties concerned, to the interests of the natives of the country, to the interests of the planters and the enterprising Europeans developing the growth of the tea industry. But Ilis Honor himself took this view, that the planters were persons who were very competent to take care of their own interests by their knowledge and their power of making themselves heard. The coolies, on the other hand, were not so competent; they were not so competent to make them-selves heard in this Council. We had heard the views of the planters, but had not had an opportunity of hearing the views of the coolies. As head of the Government and President of this Council, His Honor was, he felt, praticularly charged with the duty of looking after the interests of the cooly. Looking, then, to the interests of the cooly as well as to those of the planter, he thought it might be a question whether in the interests of both parties a proposition for a great relaxation of these restrictive laws might not be worthy of consideration. While we had done a great deal to protect the cooly in regard to recruiting, the voyage, and other matters; while we had imposed restrictions on the planters; whilst we had protected the cooly from harm in various ways, we had also imposed on the coolies serving under contract in the tea districts penal laws of extreme stringency—to such a point, that the cooly who was conveyed to the labor districts under those laws, became legally

and practically a slave: he was for three years legally and indisputably a slave. His Honor did not use the word in a bad sense. The cooly was compelled to labor to the end of his term as a man not free and his own master, and in that sense was a slave. It was true that he generally did serve under a good and reasonable master, but he was not free. He was bound down for three years, not only by the terms of his contract and by penal laws, but by physical subjection to his master, who, on the cooly's attempting to run away, could seize him and bring him back to work. In a country where the tea plantations were in the midst of jungles, that was an enormous power given to planters over labourers—a power which had sometimes been abused, though not in the great majority of cases. It was a power which, speaking technically, reduced the cooly to the position of a slave. Moreover, under the existing law, if the cooly contracted again in any shape, he again came under the penal laws and became a slave. His Honor must say for himself that he held that above all things the blessings of freedom were great blessings. He much disliked this system of bendage. He very much inclined to doubt whether the advantages the cooly gained were not more than counterbalanced by the penal laws by which he was subject to this bondage. It appeared, then, to him to be particularly in the interest of the cooly that a modification and dimination of those restrictive laws were suggested. If he was in any degree right that a mitigation of the law would be advantageous for the cooly, he was met by the planters, who were the best judges of their own interests, and who had experience to gude them. A large number of these planters did think that in their interests and in the interests of the coolies it was right to diminish the restrictions now imposed by law. We had not had time to receive replies from many Assam planters, but we had received many from Cachar. Looking to the replies received from Cachar, His Honor believed that the move in the direction of freedom was accepted by the planters as a move in the right direction. As far as Cachar was concerned, he was much inclined to think that we might do away with the restrictive provisions. Although the proposition submitted by him was his personal suggestion, it had now taken a phase which rendered it, he ventured to say, worthy of the attention of the Select Committee and the Conneil. He had expressed his views in a temperate manner; he had not pledged his mind to those views; he was prepared to after them if on the whole there seemed reason for doing so; and he felt confident that his colleagues who had began with the other opinion would also take a similar course. He hoped that this question would be thoroughly discussed before we came to a final conclusion on the Bill. He trusted it might be a conclusion which would be satisfactory to all parties.

The motion was then agreed to.

HOWRAH LIGHTING-RATE.

The Hon're Mr. Damper said, when he had the honor of presenting to the Council the report of the Select Committee on the Bill for providing for the further lighting of the town of Howrah, the Council determined that it should be published, and that time should be given to those concerned to make any representations they might think proper; since that date but one petition had been received from the Howrah People's Association, and that body expressed itself to be generally satisfied with the report and with the way the Bill had been laid before the Council by the Select Committee. There was, however, a memorial which had previously reached His Honor the President, but which had not yet been discussed by the Council, and as that memorial went the length of objecting to the Bill altogether and praying for its withdrawal, it would be necessary for him to examine such parts of the memorial as concerned the business with which the Council had to do. There was a great deal in this memorial which did not affect the business of this Council, and with which therefore he should not take up the time of Hon'ble Members. The Executive Government would no doubt profit by the suggestions made and the care given by the memorialists to looking into the administration of the

municipal affairs of Howrah generally, and would pass such orders as might

be necessary.

To clear the way, it would be well to state the legal position in which the Bill now existed. As the law stood, the Municipal Commissioners of Howrah, if they could get the sanction of the Lieutenant-Governor, might light every part of their town with gas; they might devote to the expenses of such lighting every pice of the general rate which could be levied; or they might light half the town with gas and leave the other half uncared for. But, whatever else they might do, they were obliged to make every rate-payer in the town contribute proportionably to the expense of lighting by gas, whether he benefited by such lighting or not. It would hardly be argued that that was a satisfactory state of law. The object of the Bill was to provide a remedy, and in considering its provisions it would be well to divide them into two parts-first, those affecting the portion of the town already lighted with gas; and secondly, those which related to future possible extensions under the powers proposed to be given. Mr. Dampier would begin by accepting the statement of the memorialists in paragraph 2 of the memorial, that the primary object of the Bill was "to find money for the existing contract between the Municipality and the Oriental Gas Company." Paragraph 3 went into the merits of the contract, but that was one of the points which did not touch the business before the Council. The contract had been made; that was a fact with which the Bill No modification of the terms of the Bill, not even its withdrawal, had to deal. could cancel the contract; money must be found to meet it; it must be found for the next fifteen years; and the only question was, what was the most equitable mode of finding the money.

Again, Mr. Dampier accepted the statement of the memorialists in para-

graphs 12 and 13-

"The gaslight, your memorialists submit respectfully, has been introduced chiefly in those parts of the town where there are Government or Railway buildings, or which are inhabited by European residents. inhabited by European residents. admittedly a luxury, and it cannot be just or equitable that the bulk of the rate-payers, who, as shown above, are poor, should be taxed for the convenience and advantage of a few rich

Now, the object of the Bill was to provide the remedy indicated in that very statement. In the 13th paragraph the memorialists went on to ask-

"If the principle of selecting a few tracts for gaslights be recognized in practice, it may well be argued why it should not be applied to other works of the Municipality.

To this it would be sufficient to reply that the Council were now trying to remedy one ascertained existing defect, and not to lay down general principles for municipal taxation and legislation.

There was one other, passage in the memorial which he could also accept

for the purpose of this present discussion :-

"Notwithstanding the high rate of taxation provalent in Howrah, the primary wants of the town are, it is notorious, not attended to."

And then the memorialists went on to say that the roads were not metalled, they were not watered, and no conservancy earts found their way to certain parts of the town, and so on. Admitting that statement to be a correct representation of the state of things, he would reply that the immediate effect of the Bill would be to apply at any rate, a partial remedy. Whether the proceeds of the rate proposed would be Rs. 9,000 as estimated by the memorialists, or Rs. 14,000 as estimated by the Magistrate and the Municipal Commissioners, to that extent the general funds of the Municipality would be set free as soon as this Act took effect, and the money would be available towards the metalling of roads, the lighting with oil, and satisfying the primary wants of the town, which, the memorialists said, were not now satisfied.

In paragraph 14 there was the objection that the Municipal Commissioners

"give one light at one end of a street and include the whole of it within the area of taxation. The Bill does not prescribe the distance within which lamps are to be posted, and it will be therefore entirely at the discretion of the Commissioners to vary the

The Select Committee had met that objection. As the Bill was introduced, it was open to the criticism that the Commissioners might light one end of one street and tax the whole town for lighting that particular spot. But the Bill, as now before the Council, imposed the most stringent restrictions which the Select Committee could devise in that direction. The Commissioners must first define the area they were going to light, they must then make a scheme for lighting that area, and then as the scheme was (according to the amendment be proposed to move) to be ventilated and published in the Guzette, those concerned would be able to propose alterations or object to the scheme altogether. Therefore, he said, the Select Committee had met the objection taken in paragraph 14 of the memorial.

In paragraph 6 the memorialists represented that -

"It cannot be reasonable or just that 97,000 native inhabitants should be subjected to an oppressive system of taxation for beyond their means, for the sake of 200 Europeans, many of whom are also not permanent residents of the town, constantly floating about from the nature of their service under the Railway Company."

As to the portion of the Municipality already lighted with gas, the memorialists themselves said that gas-lighting had been applied to that part of the town where there were Government and vallway buildings or which were inhabited by European residents, and the Mugistrate had reported that the Railway Company paid no less than one-fifth of the whole taxation of house and land property in Howrah, so that for this portion at any rate the

bulk of the rate-payers would not suffer much.

And this brought him to the second head under which he had proposed to consider the provisions of the Bill—the possible future extension of gas-lighting under its operation. It was not in any way the object of the Bill to throw a lighting tax or to impose gas-lighting on the 97,000 persons referred to by the memorialists. It is true that in the statement of objects and reasons presented when the Bill was introduced, it was said that the intention of the Municipal Commissioners was to extend the benefit of lighting to the whole town. But the Select Committee had given up that object altogether. If Municipal Commissioners expressed any such wish and came up to the Lieutenant-Governor with any such proposal, Mr. Dampier hoped and felt sare that His Honor would promptly negative it. Any such wholesale extension would obviously be unadvisable and missioners.

The only postulates on which the Bill was founded were, that a certain portion of the Municipality was already lighted with gas; that in the course of things it was not unreasonable to suppose that lighting by gas might properly be extended to some other portions of the Municipality; that such lighting would generally be confined to the richer portions of the town; and that the expense of this luxury of lighting by gas should fall on those who directly benefited by it, and not (as the law now required) on the whole body of rate-payers, irrespective of the distance at which they lived from the portions so lighted.

The memorialists had given many figures to prove their ease; but Mr. Dampier thought it was unnecessary to go into them, because he quite admitted the position which those figures went to prove, that it would be absurd to extend lighting generally to the whole of Howrah. Mr. Dampier was anxions not to appear to put himself in a position of hostility towards the memorialists, many of whose statements he had been able to accept, and who were quite right in bringing their objections before the Council. But he must draw attention to the figures given at the end of paragraph 5. The memorialists there said that the population was 97,781, and the taxes on houses, lands, and buildings, amounted to Rs. 1,21,816. On these figures they gave the incidence of taxation per head as Rs. 1.9. But if Houble Members would go through the calculation, they would find that, taking the figures as given by the memorialists, the incidence of taxation came to something under Rs. 1.4 per head, and not Rs. 1.9 as given by them. It might be assumed that this first and most important item, relating to Howrah itself, had received at least as much care and attention at the hands of the memorialists as any of the other figures in their statements, and as that was so

inaccurate, Mr. Dampier did not think that he would be justified in taking up the time of the Council by entering further upon the figures given in the memorial. He must protest, on behalf of the Council, against statements which would not bear the test of addition and division being laid before them as facts which should guide their decision. But the matter was not of much consequence, because he admitted the general proposition of the memorialists that it would be a hardship to impose a tax for gas-lighting on the whole body of rate-payers. Then, the memoralists made an objection referring to some sort of expectation having been held out that no such rates would be imposed, but that was an objection which Mr. Dampier would leave to His Honor the President to deal with.

And now, having explained the object and effect of the Bill as far as it lay in his power to do, he would only ask those bon'his members who were inclined to view the Bill generally with disfavor, to consider that it might very well be cutified "A Bill to prevent the extra cost of lighting by gas being thrown on persons who did not benefit by such lighting;" and if the Council would look on the Bill in that light, he hoped they would be satisfied that it was reasonable and proper.

With these remarks he moved that the report of the Select Committee be taken into consideration in order to the settlement of the clauses of the Bill, and that the clauses of the Bill be considered for settlement in the form recom-

mended by the Select Committee.

THE HONBER RAIAH JOTELNDRO MOHEN TAGORE said, before the Council proceeded to take into consideration the clauses of the Bill, he wished to offer a few remarks. It appeared to him that the inhabitants of Howrah took objection to the Bill on two grounds. They stated that an expensive system of drainage works had been introduced which had caused a considerable portion of the general funds to be applied to that purpose, and that the general management of the funds had not been so economical as it might have been, so that there had been more money expended than was necessary. And from that they argued, that if the Municipality were more carefully managed and the expensive system of drainage not persisted in, there would be no necessity for imposing an additional lighting-rate. The Magistrate of Howrah had answered some of the objections of the memorialists. But since coming to the Conneil this morning Rajah Joteendro Mohan Tagore had learned that these rate-payers had sent an application to the Council praying that they might be allowed time before the Bill was taken into consideration to enable them to reply to the objections and criticisms made by the Magistrate of Howrah in regard to their memorial. It appeared to Rajah Joteendro Mohun Tagore, that as the Government had been pleased to call on the inhabitants of Howrah to submit an expression of their opinion; it was but fair to allow them an opportunity of offering any remarks they might wish to make on Mr. D'Oyly's lefter. Entertaining that view, Rajah Joteendro Mohan Tagore would submit to the Council whether it would not be desirable to allow the memorialists time to send in their representation before proceeding to the consideration of the Bill.

THE HON'BLE BARGO DIGITABLE MITTER said, he would support the amendment if there was no valid objection to its being put, to as to enable the memorialists to make any reply to the Magistrate's letter that they might consider necessary—to give them, in fact, the satisfaction of being heard in reply

to Mr. D'Oyly's letter, even if no good was likely to come of it.

His Honor the President said, he would say one or two words on the question before putting the motion. It seemed to him very clear on the face of the petitions before the Council that all parties were agreed that we must have a Bill on this subject. The Hon'ble Member who brought forward the Bill, and the Hon'ble Member now in charge of the Bill, and the Committee, considered that, in order to obtain a settlement of this question of gas-lighting expenditure, a Bill was necessary. Those who petitioned against the Bill, petitioned on the ground that it would not be fair to burden the whole of the inhabitants with the burden of gas-lighting, but only that portion of the inhabitants who would benefit by such lighting. That was precisely the main object of the Bill before the Council. All agreed that this tax of paying for

gas-lighting should not be extended to the whole Municipality, and that was exactly the primary object of the Bill. Therefore he might assume that we were all agreed that there must be some Bill. We were irretrievably committed to lighting a certain portion of Howrah with gas. It was so lighted; a contract had been made which the Municipality could not get out of; funds must be found; and the only question was whether the Municipality at large should find the money or only a limited portion of it. So far we were all

agreed.

Then, as to the power to extend further the lighting by gas. The Hon'ble Member in charge of the Bill had told us there might be some mistake in the statement of objects and reasons. He declared for himself, and His Honor might say for himself that the object was not to light all Howrah with gas contrary to the wishes of the people, but to limit the area of such lighting and of the taxation consequent, that was to say, that the benefit of gas-lighting should be conferred only on those of the inhabitants of Howrah who of their own free will, and not from any pressure from the Government, desired to have the benefit of such lighting. If the inhabitants of any part of the Municipality should desire to extend gas-lighting to that part of the Municipality, the Bill gave power to extend lighting to that portion only, and they should pay for it themselves. So far there was not, he apprehended, any objection to the Bill. His Honor believed that that principle of extension was agreed to by the people. There could be no extension of gas-lighting except by the voice of the people who would be taxed. And there was a further check provided by the Bill on the part of the Government which His Honor pledged himself, so long as he should have the honor of being at the head of the Government, should be carefully exercised. This part of the Bill was then, he thought,

sufficiently stringent.

The only other view that it was possible to take of the Bill was this, that it might be said that the present rate of municipal taxation, if taken at its maximum, was more than enough to cover the ordinary expenditure, and that we ought to take the expenditure on account of gas-lighting in diminution of the ordinary taxation. It was said that, allowing that there should be a special tax on account of gas, what you took for ordinary purposes should be diminished by so much. It might be that draininge was a had thing. His Henor thought it a good thing. It might be that there were extravagances on the part of the Municipality. It might be that the present maximum of faxation was too high; but that was a suggestion which, he thought, would not hold water. He found by the figures given by the Magistrate that it was made clear that the total incidence of taxation in Howrah was Rs. 1-2-2 per head, and not Rs. 1-9 as stated in the memorial. In His Honor's view, that was not an exorbitant rate of taxation. When we considered that Howrah was no rural Municipality-that a great part of Howrah was metropolitan-that a great part of the population was European—that Howrah was in fact a European town—that it was in fact a portion of the Metropolis of India; when we considered that the taxation of Calcutta was some 5, 6, or 7 rupees per head of the population; when we considered that the taxation of the comparatively poor and rural town of Burdwan was greater than that of Howrah, he would not admit that the incidence of taxation in Howrah was too severe. And considering that the drainage of Howrah was a pressing necessity, and Howrah was now being connected with Calcutta by a bridge, it would require new plans of improvement. You could not carry out the ordinary conservancy, repairs of roads, drainage, and everything, out of the ordinary taxation if it were put at too low a rate. For these reasons His Honor was convinced that it was necessary to impose a tax for gas-lighting in addition, and not in substitution, of the ordinary taxtion.

The Hon'ble Member in charge of the Bill had said that he would leave His Honor to deal with the representation of the memorialists that there had been a pledge given by the Government of India that there should be no more fresh taxation. On that point all he had to say was that he had addressed the Government of India on that point, and had received an answer which had been communicated to the memorialists. He never supposed that the pledge amounted to this, that persons should not be allowed to tax themselves

for a specific advantage for their own benefit. The Government had given the answer that it did not apply to this case, and that was all the explanation His

Honor had to give.

Then the Hon'ble Member who had proposed a postponement, said that it was required to enable the memorialists to consider what reply they could give to the observations of the Magistrate. If ever there was a Bill in respect of which ample time had been given for conideration, it was this Bill. It had been nearly three months before the public since the presentation of the Select Committee's report. It had been postponed in order that there might be a free and full expression of the opinion of the people who would be affected by its provisions; and full advantage had been taken of the opportunity afforded. people had interested themselves in the matter, and he would express his satisfaction that an active interest had been taken by the inhabitants. We should not have wished to offer any opposition to a postponement, but that a great doal of time had already been given to those who were interested in their own affairs. They had considered their own affairs and placed their views before the Council. It might be said that they had not had the opportunity of putting in a final answer to the statements submitted by the Magistrate. On that point he would ask Hon'ble Members to remember that certain amendments were about to be proposed, and in accordance with the rules of the Council, the Bill, if amended, could not be passed at this sitting, and consequently it would be necessary to postpone the consideration and passing of the Bill to another meeting. That being so, it appeared to him that there was no sufficient reason to delay the consideration of the Bill at this stage. To postpone the business now would render our meeting abortive and useless. If there was anything which the petitioners wished to controvert, they would have an opportunity of

controverting it before the Bill was finally passed into law.

THE HONBLE RAJAH JOTEENDRO MOHUN TAGORE said, with due deference to the Honble the President, he would take leave to draw the attention of the Council to the 16th paragraph of the memorial. It was true the memorialists had accepted the position that the contract having been entered into, must be adhered to; but they had urged that if an expensive system of drainage had not been undertaken and the municipal funds had been more economically managed, there would have been no necessity for the Bill; and they showed that in the hudget statement of receipts and disbursoments for 1873-71 the amount to be realised would be enough to cover the expenses of the year, including a provision for Rs. 22,000 on account of gas-lighting (which was more by two thousand rupees than the amount of the original contract). And there would consequently be no necessity for additional taxation unless the expensive system of drainage already commenced were to be carried out with the present funds. He did not for a moment say that an efficient system of drainage suited to the means of the Municipality should not be undertaken; but if the general funds of the Municipality should not be sufficient to meet that purpose, it would be necessary to ask the Commeil to impose a tax for drainage, and not for lighting. It would be for the Municipal Commissioners to come up and ask the Government with maintable scheme, and for the Government to consider whether an additional tax should be imposed for drainage, or whether by more careful management sufficient funds could not be found for the purpose. He spoke in the assumption that the figures given by the memorialists were correct. That being the case, he thought it would be fair to give the memorialists another opportunity of explaining themselves further as to their objections.

The Hon'ble Mr. Damper said, he had hoped to avoid any discussion of these statements of the memorialists and the replies of the Magistrate, because, as he had said before, he did not think they affected the matter which he had now the honor of laying before the Council. There was this money to be paid; there was the area lighted. Did the Hon'ble Member who moved the amendment insist that the payment for this lighting should fall on the whole of the tax-payers of Howrall, and not only or those who benefited? That was what the memorial led to. The contract, it said, no downt must be observed; but it seemed to say, we object to the expedient provided by the Bill for throw-

ing the cost of the lighting on those who benefit to the relief of the general rate-payers. Surely it was proper to throw the burden, or most of it, on those who benefited, and with the Rs. 9,000 or Rs. 16,000 of the general fund which would be thus set free the Municipality could do what they liked. It was for the Commissioners to deal with the money thus set free; they might either reduce the general taxation by that amount, or apply it to drainage purposes or oil-lighting or anything else. All he said was that the burden of raising the money which was devoted to lighting purposes should be thrown on those who benefited by it. It was quite open to the Commissioners, in the interests of the people, to say either that they would expend the money thus made available on the general objects of the Municipality, or that they would strike off the amount from the general taxation.

As he should propose the amendment of which he had given notice, the Bill could not be passed that day, and before it could come up again, the memorialists would be able to make any further representations. But it would be a mere waste of time now to postpone the consideration of the Bill, in order (as suggested by the hon'ble mover of the amendment) merely to give the memorialists the satisfaction of controverting the statements made by the Magistrate of Howrah, most of which really did not affect the questions with which the Council had to deal.

THE HON'BLE BARGO DIGUMBER MITTER said, that what his hon'ble friend (Rajah Joteendro Mohun Tagore) really meant appeared to him to be, that the lighting-rate for all practical purposes being in addition, and not in reduction, of the maximum rate hitherto levied by the Municipality, it would afford no relief to the majority of the rate-payers. In all probability the maximum rate would be still continued, and what had been hitherto expended from the general funds towards lighting a certain part of the town of Howrah, would now be devoted to carrying out the drainage works commenced upon in the same quarter, in the benefits of which such outlying places as Sibporo, Bellore, and others of which the Municipality is composed, could not participate, and which it was not likely would ever be extended to them. To afford real relief, the hon'ble member thought, there should be a drainage rate, leviable upon the principle of the lighting from those only who would benefit by these works.

His Honor the President said, it would be time enough when such an amendment was proposed to consider whether the amendment the hon'ble member suggested was a fit subject of amendment in this Bill, or whether another Bill on the subject should be introduced. The hon'ble member who had last spoken (Baboo Digumber Mitter) was clearly in favor of such a Bill as that now before the Council: therefore he would probably not oppose the motion for the consideration of the report of the Select Committee, in order

that it might be passed as it stood or as it might be amended.

THE HON'BLE RAJAH JOTEENDRO MOHUN TAGORE then moved that the con-

sideration of the Bill be postponed for a fortnight.

The motion was negatived and the original motion was then agreed to.

The Horber Mr. Dampier said, the amendments of which he had given

notice appear rather formidable, but if hon'ble members would examine them they would see that Section 2 as it stood before was one long section divided into three paragraphs. The necessity of altering it arose from a suggestion made by the Howrah Peoples' Association, who said they were satisfied with the restrictive power given to the Lieutenant-Governor, but that they should like to have the scheme for lighting published in the Gazelle at the time it was laid before the Lieutenant-Governor, so that people should have the opportunity of making remarks and objections. He thought that a reasonable suggestion, and therefore he had made provision for it in the amendment. That was the only substantial change that was proposed, the rest was a mere re-casting of the form and wording of the sections. He moved that Sections 2 and 3 of the Bill be omitted, and the following sections, numbered 2, 3, 4, and 5, be substituted

Municipal Commissioners may submit the Lieutenant-Covernor a scheme for

[&]quot;2. It shall be lawful for the Municipal Commissioners from time to time to submit to the Lieutenant-Governor, for his sanction, a scheme for lighting or for continuing to light with gas any portion of the town of Howrah, such portion of the said town having been previously defined by the Municipal Commissioners at a

meeting held for that purpose. The Lieutenant-Governor, after publication of the scheme for one month in the Univertia Gazette, and after consideration of any objections which may be raised to it, or alterations suggested in it, may, if satisfied that proper provision has been made for the lighting, sunction such scheme; or may refuse his sanction to such scheme, or may return it to the Municipal Commissioners for alteration in certain particulars to be specified by him, and, when altered, may sanction it as aftered. The Lieutenant-Governor shall cause his sanction to any scheme to be notified in the Calcutta Gazette, and shall at the same time cause the scheme sauctioned to be published in the said Gazette.

Loghting-rate not exceeding two per centum may, after equation of scheme, by imposed on houses, buildings, and lands.

After rate imposed, lamps must be lighted.

Rate psychia by occupiers quarterly in

Artide lands &c., exempted from rate. charitable purposes, shall not be liable to the rate.

3. After notification by the Lieutenant-Governor as in the last preceding section mentioned, it shall be lawful for the Municipal Commissioners to impose an annual rate not exceeding two per centum of their annual value upon all houses, buildings, and lands situated within such portion of the said town, for the purpose of defraying the whole or part of the expense of lighting.

4. So soon as a rate has been imposed under the last preceding section, the Municipal Commissioners shall immediately thereupon cause such portion of the said town to be lighted with gas according to the scheme sanctioned by the Lieutenant-Governor.

5. The rate imposed under section 3 upon houses, buildings, and lands, shall be paid by the occupiers thereof by quarterly instalments in advance; but no rate shall be leviable until the lamps in the portion of the town to be lighted shall have been lighted, nor shall any rate be leviable for any quarter or portion of a quarter antecedent to such lighting. Arable lands and lands used for pasturage, and buildings used exclusively as places of public worship or applied solely to

THE HONBLE RAJAH JOTEENDRO MOHEN TAGORE moved that in line 12 of the proposed Section 2, after the words "Calcutta Gazette," the words "and by notification in the vernacular posted in conspicuous places within the said town of Howrah," be inserted. Very few of the inhabitants of Howrah would have the opportunity of seeing the Guzetic, and it would be desirable that the inhabitants generally should have the opportunity of knowing what the scheme was.

With regard to Section 3, he did not quite understand what the latter portion of it meant. If it was intended that the rate was to defray only a part of the cost of lighting, and that the rest was to come from the general funds, that would rallify the effect of the provision that no portion of the expense of lighting should be defrayed from the general fund, so that those only should pay who would benefit by the introduction of gas.

This, he understood, was the chief recommendation of the Bill; but with such a provision it would be practically set at naught.

The Hon'ble Mr. Damper said that he admitted that the Bill was open to the objection that it contained this theoretical defect. But the provision in question was absolutely anavoidable unless hou'ble members were prepared to serew up the proposed rate to whatever might be necessary to meet the whole cost of lighting. In the part of Howrah already lit with gas a rate of 2 percent, would not cover the contract by which the Municipal Commissioners were bound for the next fifteen years, and there would be some Rs. 4,000 or more to be met from the general fund. That undeniably was a defect in the Bill. If the hon'ble member would propose a higher rate being fixed, for the sake of adhering to the principle that those who benefited should pay the cost of the lighting, the Council would doubtless be prepared to consider it; but the suggestion appeared to meet with no favor when he himself threw it out for consideration on the last occasion when the Bill was before the Council. The Magistrate had explained distinctly that for certain reasons not specified this contract was entered into at a higher cost than the Calcutta contract, and that in any future extensions that might be made it was expected that the contract would be obtained on better terms, and that a 2 per cent, rate would be ample to cover the whole cost. As the case of the area already lighted was peculiar and exceptional, he would himself oppose any amendment of which the object was to give the Municipal Commissioners and executive Government the power of imposing a 3 per cent. rate generally for lighting, mergly for the sake of saving the principle as regards this one isolated case.

THE HOR'BLE RAJAH JOTEENDRO MORUN TAGORE Observed, that if he understood the matter rightly, he supposed the relief to be given was a prospective one, and was to be postponed for the next fifteen years. In that case the whole principle of the Bill was open to question, and the ground upon which the Bill

was introduced seemed to have been completely altered.

HIS HONOR THE PRESIDENT said, as he understood the matter, it appeared to him that the rate-payers who did not benefit from the lighting, but at present paid for it, would be relieved to the extent of the rate, and the residuum would remain a burden on the general rate-payers. The hon'ble member in charge of the Bill was quite correct when he said that this could only be remedied by proposing an amendment raising the special lighting-rate to a higher point than the present Bill proposed.

The question that Sections 2 and 3 of the Bill be omitted, was agreed to.
The new Section 2 with the proposed amendment thereto was then

agreed to.

The proposed Section 3 having been read-

The Hon'sile Baroo Dissumer Mitter moved that in line 7 the words "three per cent." be substituted for "two per cent." He said the object of the amendment was to fully assert the principle on which the Bill was based, that those only should contribute towards the cost of lighting by gas who benefited by it. And as it appeared that a rate of two per cent, would not meet the present charge of the contract entered into with the Gas Company, he would propose, rather than the principle of the Bill should be sacrificed, that a rate of three per cent, should be levied.

The Hon'ble the Acting Advocate-General said, it appeared to him that the amendment now proposed would introduce a radical change. He thought all persons concerned should have had information of such a proposal, and that three per cent, should have been inserted in the draft of the Bill. The proposal seemed to him not to come within the scope of an amendment so suddenly put in Council.

The Honbert Lord Unick Browne said, it seemed to him necessary, on the principle adopted, to raise the rate from two to three per cent. He understood that two per cent, would be insufficient to defray the entire cost of lighting, and Sections 3, 4, and 5, as proposed by the honber in charge of the Bill, provided that further portions of the Municipality might be continually added to the gas-lighted area. If the rate was insufficient to defray the whole charge of the lighting, the additional charge would be thrown on the general funds of the Municipality, and consequently become payable by the inhabitants of the whole town in proportion as additional portions of the town were lighted. Thus, supposing that the lighting of the first portion cost Rs. 10,000, and that the lighting-rate produced Rs. 7,000, then the inhabitants would have to pay out of the general fund Rs. 3,000. If another portion were added to the lighted area at the same expense, then another Rs. 3,000 would have to be paid out of the general fund; and in this way you would go on increasing the charge on the inhabitants of the Municipality in general, whether the portion they lived in was lighted with gas or not.

The Hon'ble Mr. Schalch said, it appeared to him that two cases would fall under the provisions of Section 3—first, the case already arisen of the contract already made and which must be paid for; and secondly, new extensions for which no contracts had yet been made. As a rate of two per cent, would yield Rs. 14,000 in the portion of the Municipality already lighted with gas, whereas the contract cost was Rs. 20,000, it would leave a deficit of Rs. 6,000 to be borne by the general fund. But it was anticipated that a rate of two per cent, even in that portion of the Municipality which was now lighted, would cover the cost when the present contract expired. Therefore we might assume that a rate of two per cent, would cover the cost in future extensions. Therefore, according to the Magistrate's letter, a rate of more than two per cent, would not be required. Therefore, whilst we provided that a rate of two per cent, should be imposed to meet the cost of future extensions of lighting, we might put in a proviso saying that the Commissioners might impose a rate of three per cent, in the portion of Howrah now lighted during the currency of the present contract.

His Honor the President said, he was somewhat unwilling to put to the Council so very radical a change without notice. It was a very radical change, and one which required very full and very careful consideration. But as he had already permitted the hon'ble member to make the motion, he thought he might take the opinion of the Council upon it, on the understanding that if this change was made time should be given to the Council and to the inhabitants of Howrah to digest that change, to review what was done, and to consider whether what had been done, had been done rashly and without sufficient deliberation. suggested, and in fact stated by the hon'ble member in charge of the Bill, that his view of the matter was this, that the present contract for lighting - portion of the town of Howrah was a somewhat extravagant contract, and that it was hoped that future contracts would be made on better and more favorable terms; that with regard to future contracts a rate of two per cent. would be sufficient. The present extravagant contract was made by the rate-payers at large through their representatives the Municipal Commissioners; the representatives of the Municipality then made this extravagant contract, of which, we were told, onethird was extravagant and two-thirds only afforded a quid pro que. Therefore we might fairly say that on the special part of the town we would only impose a tax to the extent to which they had benefited, and not to the full extent to which the general body of the rate-payers had, through their representatives, committed themselves. Therefore, as the proposed amendment changed the essence of the Bill which had been so fully considered, His Honor was somewhat adverse to it. Perhaps the Council would leave the Bill where a careful Committee, after much deliberations, had put it. He would put the amendment, whether the rate should be 2 or 3 per cent. as a maximum, reserving for consideration future amendments in regulations, or qualification of the 3 per cent. rate, if a rate of 3 per cent. were adopted by the Council at this sitting.

The question being put, The Conneil divided :-

The Houble Baboo Digumber Mitter.
Rajah Jotsendro Mohau Tagore
Mr. Robinsen.
Mr. Bernard.
Jord Ulick Browne.
Mr. Schaldb

Mr. Schulch.

The Acting Advocate-General.

None 3.

The Hon'ble Moulvy Abdool Lateef.

Mr. Dampier. His Honor the President.

The motion was therefore carried.

On the motion of the Hon'ble Baboo Digumber Mitter the words "or part" in the 10th and 11th lines of the section were then emitted.

The proposed Section 4 having been read-

HIS HONOR THE PRESIDENT said there appeared to him to be some difficulty in regard to this section. The section provided that-

"As soon as a rate has been imposed under the last preceding section, the Municipal Commissioners shall immediately thereupon cause such portion of the said town to be lighted with gas according to the scheme sauctioned by the Lieutenunt-Governor."

Supposing it was found that the Municipality could not complete the scheme sanctioned by the Lieutenant-Governor for the money? He supposed that the Commissioners could not be called upon to perform an impossibility. We had frequently seen that schemes submitted by the most eminent engineers could not be carried out within the estimates framed. He proposed therefore to add to this section the words "or so far as the rate will permit."

THE HON'BLE THE ACTING ADVOCATE-GENERAL observed that the words proposed to be inserted seemed to him to be unnecessary. The scheme must be made according to the money to be expended.

HIS HONOR THE PRESIDENT remarked that the amendment he had proposed had reference to the question of the responsibility of the Lieutenant-Governor. The Lieutenant-Governor passed a scheme and called upon the Commissioners to carry it out. The Commissioners found that the scheme could not be completed within the estimate. That was the false position from which he wished to absolve both the Commissioners and the Lieutenant-Governor. The

Lieutenant-Governor would be put in a very awkward position if he was to be bound to carry out a scheme whether it could be completed within the estimate submitted or not. We all know that estimates were often deceptive. The Lieutenant-Governor was only human, and could not be sure of keeping

engineers within compass.

THE HON'BLE MR. SCHALCH said that these works were carried out in two ways—they might either be carried out by contract, or departmentally. Under the latter system a scheme was submitted and an estimate framed according to the market rates of labor and materials. In the meantime prices might rise. It had been found in works carried on by the Port Commissioners that, preparatory to the completion of a contract, the rates bad risen by nearly 30 per cent.; therefore there must be some provision made to meet such cases. If you did not, in consequence of its being impossible to carry out a scheme fully within the estimate-if you allowed a scheme to be carried out in part, you would have the objection raised that a light might only be put at one end of a street and a light at the other, and notwithstanding that the whole street might be liable to be taxed. He thought that a provision of the kind proposed was absolutely necessary.

The Hox see Mr. Dampier said, he must observe on behalf of the Select

Committee that they had anticipated such a dilemma as now stopped the way of the Council, and had been eareful to keep in the Bill a provision which would admit of some portion of the general fands being applied towards the cost of

lighting, so as to meet such difficulties in working.

His Honor the President observed that he must distinctly say this, that the Lieutenant-Governor could not accept the responsibility of passing schemes on the assumption that they could be carried out strictly within the estimates.

THE HON'BLE RAJAH JOTEENDRO MOHUN TAGORE remarked that, with such latitude to the Commissioners, it would hardly be necessary to restrict them at

The section as proposed to be amended was then agreed to.

The proposed Section 5 was agreed to.

THE HON'BLE MR. DAMPIER said, the effect of the amendments carried by the hon'ble members, who might be said to represent the objecting rate-payers of Howrah who strongly objected to this additional taxation, was to give the Municipal Commissioners and the executive Government authority to impose a tax of three per cent, instead of two. The amendment materially affected the character of the Bill, and he must now move that the Bill be referred back to the Select Committee to enable them to draft it as a homogenous whole.

THE HON'BLE BAROO DIGHMBER MITTER said, if we were at all to carry out the principle on which this Bill was based, he did not see how we could else get out of the difficulty. The Magistrate of Howrah had said that a rate of two per cent, on the portion of the Municipality lighted by gas would only raise Rs. 14,000, and the sum we had to provide to meet the present cost of such lighting was Rs. 20,000. The only remedy therefore was to raise the rate to three per cent., unless we preferred to abandon the principle on which the whole Bill was based.

HIS HONOR THE PRESIDENT said, the question as to the rate of faxation had been decided, and the question new was not whether the change that had been made was a radical change or not, but whether the change that had been made did not require that the minute provisions of the Bill should be looked into in order that they might be made to correspond and fally with the amendment. It was very important to see that all the provisions of the Bill fitted into the change.

The question that the Bill be referred again to the Select Committee with

The Council was adjourned to Saturday, the 9th August 1873.

MAHOMEDAN EDUCATION, AND THE MOHSIN ENDOWMENT.

RESOLUTION.

GENERAL DEPARTMENT.

EDUCATION.

Calcutta, the 29th July 1873.

READ-

The following papers regarding the increased extension of educational facilities to Mahomedaus in Bengal, namely,—

Bengal Government letter No. 29:8, dated 17th August 1872, with enclosures.

Home Department Resolution and letter, dated 13th June 1873.

Also the proposals by Mr. H. Woodrow, then Officiating Director of Public Instruction, under date the 9th August 1872, with the Lieutenant-Governor's orders thereon.

Also letter No. 242B, dated 28th November 1871, from the Commissioner of Dacea, enclosing a memorial signed by Khajeh Abdool Gunny, c.s.t., and other Mahomedans of Dacea, praying for the establishment of a Mahomedan College at Dacea, and specifying the advantages and concessions they specially desire.

Also the Commissioner of Dacca's report, No. 102A, dated 16th June 1873, upon the question put by Government as to the languages which Mahomedan boys at Government schools in Eastern Bengal wish to learn.

The Lieutenant-Governor observes that all the Government schools in Bengal, except the Sanskrit College and the Hindu School in Calcatta, are already open to Mahomedan as well as to Christian and Hindu scholars; and he has, in the correspondence cited above, expressed his unwillingness to found, with Government money, special schools for any particular creed or denomination, though he was willing to sanction special classes for Mahomedans in exceptional circumstances. Accordingly, the Lieutenant-Governor had, in 1871, directed that if there were at any Government schools in Eastern Bengal, or elsewhere in Bengal Proper, sufficient Mahomedan scholars who desired to learn Arabic and Persian, arrangements should be made for teaching those languages in special classes. He submitted to the Government of India his view that we should teach the general body of Mahomedans of Bengal their own vernacular, which is Bengalce, in the Bengalce character, but with some infusion of Persian words; that we should teach Western learning to such Mahomedans as may seek it through the medium of English and vernacular, rather than through the medium of Arabic or Persian; but that we should, at specially endowed colleges, teach the classical languages of Persia and Arabia to Mahomedans in their own way, so far as to satisfy the requirements of their religion, their ideas of a liberal education, and the genuine demand for griental learning for its own sake.

2. While the Lieutenant-Governor thought that the Government funds could not be properly devoted to separate Mahomedan colleges and schools to a greater extent than at present, he also felt that the endowment of Mahomed Mohsin of Hooghly, which is managed by the Government, afforded a legitimate means of promoting special Mahomedan education. Accordingly, in submitting these views to the Supreme Government, the Lieutenant-Governor proposed that so much of the Mahomed Mohsin endowment as is assigned for educational purposes should be spent in giving practical effect to proposals for furthering Mahomedan education throughout the country. In order that we might be able to devote the whole proceeds of the Mohsin educational endowment to Mahomedan education, the Lieutenant-Governor asked the Government of India to make some special grant to enable this Government to set free from the general purposes of the Hooghly College the Mohsin funds, and with the proceeds to defray the cost of Mahomedan Madrissas at the centres of Mahomedan population, such as Dacca, Chittagong, and Rajsbahyo.

3. The Government of India have now expressed their general approval of the Lieutenant-Governor's views and plans; and they have, with a liberality for which the Government of Bengal is most grateful, made for the purpose

indicated an addition of Rs. 50,000 to the grant for education in Bengal. This additional grant will enable the Bengal Government to maintain as a full-power college the large and successful general college at Hooghly. His Excellency the Viceroy in Council has also approved the appointment of a European officer on a salary of not less than Rs. 1,000 a month as Principal of the Calcutta Madrissa, and possibly as Superintendent of Madrissas in Bengal; and has expressed a wish that Mahomedan Madrissas or Departments should be grafted on to existing colleges and high schools at the centres of Mahomedan population in Bengal.

4. The funds which the Lieutenant-Governor has at his disposal for special

Mahomedan education are-

(1) Grant to the Calcutta Madrissa and its attached schools, as	Ms,
per the Educational Budget of 1873-74 (2) Mahomed Mohsin Educational Endowment, yielding per	38,000
(2) Mahomed Mohsin Educational Endowment, yielding per annum about	55,000
Total	93,000

From the sum available, as above-mentioned, must be met-

First,—The cost of the Hooghly Madrissa and boarding-house, and the difference between the full college or schools fees and those paid by Mahomedan scholars. The grant for the Hooghly Madrissa and boarding-house during the year 1873-71 is Rs. 5,000, besides scholarships; the Lieutenant-Governor would make it in future Rs. 7,000, in accordance with plans for other Madrissas to be presently stated.

Secondly,-The cost of the Calcutta Madrissa and Anglo-Persian Department and boarding-house, and of the Branch School at Collinga. The Lieutenaut-Governor is satisfied that the Mahomedans of Bengal would wish the Calcutta Madrissa to be retained, whatever other Madrissas may be established. Excluding scholarships, the grant for the Calcutta Madrissa. and its attendant institutions during the year 1873-74 was Rs. 34,500 gross, the fees being credited to Government. The new appointment of Principal and Superintendeut of Madrissas must considerably increase this charge; and the Lieutenant-Governor would, if necessary, assign Rs. 35,000 plus its fees, or about Rs. 40,000 in all, as the cost of this institution and its dependencies. The establishment of moulvies and toachers at the Calcutta Madrissa requires revision. The number of teachers seems too large, and the salaries of the junior teachers may be too small. For the 80 or 90 Arabic students there are seven moulvies besides the professor; while for the 320 boys in the Anglo-Persian Department there are 18 teachers besides the professor and the resident moonshee. The Director of Public Instruction will be instructed to submit an early report on these establishments.

There will remain Rs. 51,000 to be spent on Madrissas at Dacea, Chittagong, Rajshahye, or other places in the Mahomedan districts, on scholarships, and on other means of promoting the education of Mahomedans.

5. The Lieutenant-Governor proposes that the new Madrissas should consist of a boarding-house for Mahomedan students, a set of rooms for study, and a staff of Mahomedan officers (who should teach Arabic and Persian, and other branches not requiring a knowledge of English), as well as a master capable of acting us home tutor for English education. One at least of the teachers would have free quarters in the boarding-house, and would have charge of the boarders. The Madrissa would be attached to, and the board-

ing-house would be near, the college or high school, and Mahomedan boys of approved merit, who attended school or college, would have two-thirds of their school fees paid for them from the Madrissa funds.

- 6. Of all the eastern districts, Chittageng and Noacolly are those which have the largest population of Mahomedans of the class which seek education and send students to the Calcutta and Hooghly Madrissas. Rajshahye is centrically situated in a part of Bengal, nearly three-fourths of the inhabitants of which are Mahomedans. Dacca, on the other hand, is a still more important centre, and has also around it a very large Mahomedan population; and the Commissioner reported in 1871 that Khajeh Abdool Gunny, c.s.i., with many infinential Mahomedans, wished to have an exclusively Mahomedan college established at Dacca, where it students might learn English or Arabic. The memorialists, it is observed, especially say that they do not require Bengali or Hindustani to be taught at this college, as their children learn these languages sufficiently well at home. The memorialists lay much stress on having a European gentleman, with some knowledge of Persian and Arabic, at the head of the Dacca Madrissa. The Commissioner reported in 1871 that a piece of land would be given for the site of a Madrissa at Dacca, and that eventually wealthy Mahomedans might probably come forward to endow such an institution.
- 7. If the Mahomedan gentlemen of Dacca should furnish the funds for a separate college of their own, every assistance shall be given to them, and the Mohsin Madrissa grant will be amalgamated with their funds. But putting this question apart, the Lieutenant-Governor's present view is, that it will be best to establish, in addition to the Hooghly Madrissa, Madrissas at Dacca, at Chittagong, and at Rajshahye, consisting of not less than the following:—
 - (a) A boarding-house with three or more school-rooms, and a decent house, after the native style, for the resident teacher.

(b) An establishment consisting of—

١	•	v				Per annum, Re.
	Superintendent on Rs. 5	200, rising to R	s. 250			m more
	1st Teacher on Rs. 75, r	ising to Rs. 100				1,020
	2nd ditto on ,, 40,	,, to ,, 60		198		640
	Contingencies and prize					1,440
	Servants for boarding-h	iouse and gran	st-in-aid of	boarders'	messing, at	
	Rs. 100	***			***	1,200
			Total	per annum		7,000

For Dacea a more highly-paid staff might be allowed, say a Superintendent on Rs. 350 per measem, and annual net grant of Rs. 10,000. The Super-intendent should be, if possible, a Mahomedan, who knows both English and either Arabic or Persian, and be should be competent to teach Mahomedan law. The Madrissa building should be as near as possible to the college or high school or zillah school buildings; boarders or other Mahomedan boys approved by the committee would be allowed to attend the English, law, survey, science, and other classes of the college or school on payment of one-third the usual fees, the other two-thirds being paid by the Mobsin Fund. Each Madrissa would be under the management of a special committee, or of a special sub-committee of the general District School Committee. Such committee or sub-committee should consist of Mahomedans and Europeans, and the Superintendent of the local Madrissa would be a member, and might he secretary. At Dacca and Hooghly the Principal of the college should be a member of the committee. The cost of the buildings, which should not be very expensive, would be met from the uninvested surplus of about Rs. 90,000 now in the hands of the Mohsin Fund trustees.

8. The Lieutenant-Governor would not at present lay down the course of study in Mahamedan literature, or Mahamedan law, which should be pursued at the Madrissas. He would leave details to be settled by the local Superintendents and the local committees under the general supervision of the

Superintendent of Madrissas. His view generally is, that we should teach at Madrissas such Persian and Arabie, and a reasonable amount of Mahomedan law and literature, as students may wish to learn, and that we should give special facilities to Madrissa students who may elect to take the ordinary English course of study, and to read physical science.

9. It has often been urged that the best Bengal Mahomedans are usually men of small means. The Lieutenant-Governor believes this to be true; and

Jessors, Backergauge, Mynacosing, Tipperalt, Forcedpore, Sylhet.

he would set aside a further sum of Rs. 7,200 to be allotted, at the rate of Rs. 800 a year, to each of the zillah schools marginally noted, for expenditure, partly in paying two-thirds of the school fees of

descrying Mahomedan boys who may attend regularly at these schools, and partly in bearing a share of the cost of a teacher of Arabic and Persian. The views of the Mahomedan members of the District School Committees should be allowed much weight in deciding how these grants are to be spent. A sum of Rs. 8,000 might be set aside to need two-thirds of the college or school fees of descrying Madrissa students who may attend the Presidency, Hooghly, or Dacca Colleges, or the collegiate and other schools—near which a

Madrissa may be established.

which may prove necessary, and especially for Mohsin scholarships. All scholarships now held at the Calcutta and Hooghly Madrissas will be continued to their holders. The number, amount, and duration of the scholarships can be settled as soon as the new Madrissas are established. But in the interest of all parties, the Lieutenant-Governor thinks that a large proportion of the sum available should be devoted to the encouragement of Mahomedan lads who learn English and succeed in English studies and physical science. In general terms, the Lieutenant-Governor would say that we ought to establish some Mohsin scholarships of Rs. 4 or Rs. 5 per measem tenable at zitlah schools; and some of Rs. 15, Rs. 20, and Rs. 25 per measem tenable at ordinary or special colleges, or at the civil service classes. Perhaps it might be possible to have one Mohsin scholarship of Rs. 1,000 a year tenable in England by successful Mahomedan students of English.

11. The total annual cost of the above arrangements will be-

						4.5			
								A	nimal cost in 15%
Calcutta Madrissa									35,000
Dacca Madrissa									[0,0HH)
Establishment and	Lbour	ding-I	ionse of	. three	Madris	osps	141		21,000
Various further ex	срецы	s, incl	uding a	seladara	Jups		111		FLS00
Assignment for M	ahom	edan c	alneatic	si at ni	ne zilla	h scho	ds		7,200
Assignment to me	et the	cost	of pay	ing tw	o-third	s fees	of Mad	lrissa	i i
boys who may at	tend:	at the	Preside	ney, 41	ooghly,	and Da	icea Col	Jeges	
or collegiate sch									
or law classes .						P e d			5,000
							Total	1 1 2	98,000
	Am	ount a	vailable	s as per	paragi	caph 1	ahove		93,000

12. The Licutenant-Governor hopes that Mahomedan gentlemen of wealth and liberality, of whom there are many in Eastern Bengal, will somer or later come forward to endow scholarships or otherwise to support the new Madrissas which are to be established. The Commissioner of Dacca will be asked to communicate with the memorialists of 1871, and to ascertain how far they are willing to help. The funds at the Lieutenant-Governor's disposal do not permit of his providing a competent European Principal for the Dacca Madrissa; but if the memorialists still desire to have such an officer over the Dacca Madrissa, and see their way to guaranteeing an additional income of Rs. 6,000 per annum, the Lieuterant-Governor would hope to be able to meet their wishes.

18. The arrangements now proposed do not set aside any funds for aiding Mahomedan primary schools. The Lieutenant-Governor has much hope that the action taken by local officers under the primary school orders will result in our having Mahomedan scholars and teachers at a great many of

the primary schools in the eastern districts. If this should be so, if a large proportion of the school boys are Mahomedans, the Lieutenant-Governor would expect that in course of time district officers may be able to nominate Mahomedans to a share of the Deputy and Sub-Inspectorships in Mahomedan districts. At present hardly a single member of the inspecting staff in Bengal

is a Mahomedan.

14. In pursuance of the policy that Government funds cannot be set aside for special sects, the Lieutenant-Governor has not proposed to set apart any of the grant-in-aid fund, or of the scholarship fund, or of the primary school grant, exclusively for Mahomedan education. The funds now granted for Mahomedan purposes come exclusively from the Mohsin foundation and from the grant made in the last century to the Calcutta Madrissa. The Lieutenant-Governor hopes and anticipates that before long Mahomedans may get their fair share of the general scholarships and other educational advantages granted by Government to the Mahomedan districts. He was glad to notice in the last Educational Report that Mahomedans are said to be creeping up to the top of the zillah schools in Eastern Bengal; he has recently heard that the head student of the Hooghly College at the recent B.A. examination was a Mahomedan; and he has just seen that a Mahomedan boy came out first at the open examination for patshala scholarships in the Pubna district.

15. As respects the kind of man required for the new Principalship of the Madrissa, the Lieutenant-Governor's views are expressed in the following

extract:-

"His Honor would appoint as Principal of the Calcutta Madrissa and Superintendent of Madrissas in Bengal a European scholar on Rs. 1,000 per mensem, to be paid from the Mohsin Fund. To bring him into sympathy with the students, and to enable him to direct their studies, he should be a Persian and Arabic scholar, but His Honor does not propose that the teaching of those languages should be in any degree his chief function. It is much more important that he should be able to direct their education in European science and art, and to teach in the Calcutta Madrissa the most important branches. And most important of all, much more important than his being a mere oriental scholar, is that he should be a man fitted to lead, to influence, and to discipline youth—a man with the talent of a head-master of a public school, and a temper fitted to deal with and attach to him the natives of India."

16. The Commissioners of Dacca, Rajshahye, and Chittagong will be requested to appoint at once committees consisting of the Magistrate, the District Engineer, two or three educated Mahomedans, and a representative of the local college or school, to propose a scheme for buying or building, close to the school or college, a Madrissa containing three or more school-rooms, accommodation for not less than thirty boarders, and a house for the resident Superintendent. The outside cost of the whole should not exceed Rs. 25,000 for each Madrissa; the committee will best be able to decide what kind of buildings should be built or bought in each case. The Commissioners of these divisions may also take such steps as they may see fif, either by public meeting or otherwise, to interest the Mahomedan public in the movement.

TEHSILDAREE ESTABLISHMENTS FOR GOVERNMENT KHAS MEHALS.

No. 5166, dated Calcutta, the 6th December 1872

From-C. Bernard, Esq., Officiating Secretary to the Government of Bengal, Revenue Department,
To-The Secretary to the Government of India in the Department of Agriculture,

Revenue, and Commerce.

Under cover of my letter No. 5057, dated 2nd instant, was submitted the Board's, Commissioner's, and Settlement Officer's report upon the settlement of the Western Dooars of Bhootan. It will have been observed that the settlement has been made at revenue rates with the jotedars, some of whom are actual cultivators of the land; that in three of the less cultivated pergamalis the basiness of collecting the revenue from the jotedars has been made over to farmers who have some old connection with the pergamalis, at a commission of 174 per cent, on the total land revenue; but that over the other six pergamalis it was proposed to collect the Government revenue for tent, whichever it be called) from the jotedars through the agency of tehsiblars, at a commission of 10 per cent, on the revenue. This was the system which had been hitherto in force in the Dooars; but the Lieutenant-Governor has preferred to substitute for tehsildars paid by a commission, and more or less uncontrolled by Government, a tehsildarce system more nearly approaching to the tehsildarce (manufacture or talcokdarce) system of temporarily settled lands in other parts of India, and has directed the Board to submit proposals for giving effect to such a system.

2. The question how the Government revenue (or rent) was to be collected on temporarily settled lands where Government owns the land, or where it arranges directly with the occupiers, was settled in Assam by a decision that there should be a class of Government officers called monzabilars, who should collect the revenue and manage the affairs of a mouzah, or tract of country paying about Rs. 5,000 of revenue (or rent); and as remuneration for the duty the mouzahdars were to be allowed a percentage of from 10 to 15 percent, on the revenue they collect, and they are also allowed a very small establishment to help them. A somewhat similar arrangement exists in Chittagong, where estates are very many and very small, and where circle-farmers, as they are called, collect and pay into the Government treasury the revenue instalments

of estate-holders.

In nearly the whole of Orissa, where the hand revenue is temporarily settled, there are large proprietors who collect their rents and pay in the Government revenue without the intervention of any Government official or tehsildar between themselves and the treasury. But in the large Government estate of Khoordah in Pooree, it has been found necessary to attach a Deputy Collector to the sub-divisional officer for the mere purpose of doing the tehsildarce work of this tract, the ryots of which pay Rs. 1,50,000 into the treasury annually.

In the Palamow tract of the Lohardagga district, where the sub-divisional officer is in executive charge of more than 4,000 square miles of country, there is a considerable area of Government lands, the ryots of which have to be

"See letter No. 4450, dated St. October, reporting upon the Palamow sattlement."

It is now that the settlement is over, been obliged to sanction—temporarily, and subject to the orders of the Supreme Government on the general question—

■ Sub-Deputy on Rs. 150 ■ month to assist the sub-divisional officer in managing these lands. Similarly, for the Government dearahs, or lands thrown up by the river Ganges, in the Bhangalpore division, the Lieutenant-Governor has had to sanction temporarily two tehsildars, who shall manage the lands, collect the rents, and also conduct the re-settlement which is now pending.

In a recent case referred by the Commissioner of Cooch Behar, it was pointed out by the Board of Revenue that the Government of India had, in letter No. 483, dated 13th April 1841, invested Commissioners of divisions with

anthority to pass charges for collection of the revenue in khas mehals (Government estates) not exceeding in the aggregate 10 per cent. on the total collections of the year. This permission has not been very generally acted upon, because the policy of the revenue authorities in Bengal has been to let Government estates to farmers for terms of years; these farmers were often Europeans, some of whom live at home in England. According to the rules and practice of the Board of Revenue, 10 per cent, on the aggregate rents or assessments of khas mehals has been allowed to such farmers to cover the costs and loss in collection, and a further sum, sometimes amounting to 10 per cent., is usually allowed as farmers' profits, besides profit from increase of cultivation, enhance-

ment of rents, indigo cultivation, &c.

33. The Lieutenant-Governor does not wish to continue the system of farming all or most of the Government khas mehals, and thus completing the separation between Government officers in Bengal and the people who occupy and dwell on the land of Bengal districts. Some of the farmers are no doubt good men and do their duty, but they have little or no incentive to spend money on the land or improve the condition of the ryots. When a farmer gets large farms and makes a good income therefrom, he often becomes an absentee and leaves his farms to be managed by irresponsible agents. A farmer can be of very little assistance in executive or administrative matters; he is rarely fit to be a Magistrate on the lands he holds; he in no way represents the Government; he does not help the Government or its officers in gaining an insight into the state of the people, or of their agriculture, or of their wants; indeed, as his lease draws to a close, it must be the direct interest of a farmer to understate the yield and conceal the state of his farm, so that he may obtain a renewal of his lease on favourable terms. In fact, it has too often, the Lieutenant-Governor thinks, ended in repeated renewals and eventual permanent settlement with the original farmer, or his beirs or assignces: so that, in fact, a valuable landed property is given away at discretion. A telisibler, on the other hand, with a small establishment, would be most useful in all these ways; it is not too much to say that in temporarily settled parts of India the tebsildars are the most important, most influential, and most respected class of native officials the Government has; and there is no reason why in course of time tehsildars on Government estates in Bengal should not occupy the same position as tehsildars in the North-Western Provinces, mainlittdars in Bombay, and falookdars in Madrus. So far as the public treasury goes, the employment of tehsildars would certainly

*The word "pass" is each but as a matter of fact these allowances do not oscially pass through the public necessary at air; only the net revenue after the deduction of costs of collection and farmer's allowance is brought on the Government rent-roll, as will be seen from the appendices to the Bhatan Doones Seithement Report.

be cheaper than the present arrangements, whereby, under the orders of 1841. Commissioners can pass* 10 per cent, as costs of collection; and than the farming arrangements whereby, under the Board's rules and practice, 10 per cent, as costs of collection and matther percentage as farmers' profits, with all subsequent increase, are allowed to lessees of Government estates.

4. Against any proposal thus to have tehsildaree establishments on Government khas mehals, there may be the objection that it is undesirable to multiply Government establishments with their claim to pension; that in every ease of the kind special recommendations will have to be made to the Government of India; and that the old system has always worked well enough. In regard to the third objection, I am to submit that the old system was costly, in that it gave up large lump sums as commission to farmers, and that it answered no other purpose of Government except the mere collection of revenue. The ryots also were not protected, and the farmer had every possible interest to enhance their rents or make them grow indige. This farming system is identical with the old system which was abandoned in other parts of India directly land revenue settlements and the record of landed rights were regularly taken in hand. To meet the other objection, the Lieutenant-Governor would suggest that these tehsildaree establishments be recognised as provincial establishments, and that the Supreme Government be pleased to allow the local Government to appropriate, subject to report on each case, a fixed percentage of the land revenue assessed on Government khas mehals and ryotwaree districts to the

support of tehsildarce and subordinate administrative establishments. The percentage would not be allowed on tracts where there are superior proprietors with recognised rights; and it should be made to cover all costs for commission to village headmen (humberdars as they are called in the North-West Provinces, and munduls, pradhans, martabars, manjees, gounters, as they are called in different parts of Bengal). If the percentage were allowed, then the Lieutenant-Governor would attempt to work the grant and its establishments into the scheme for sub-divisional executive establishments, to which the Government of India has been pleased to give a partial and provisional sanction in Home Department letter No. 3904, dated 10th October 1872.

5. The percentage for which the Lieutenant-Governor would ask would be 10 per cent, on the full assessment on the ryots. He would anticipate that about 4 per cent. of this would go to the village headmen, while 6 per cent, might be spent on tehsildaree establishments. This percentage would certainly not cover the costs of collection in smaller estates but it would cover the collection charge in large estates, and would enable the local Government to strengthen the sub-divisional establishments in places where there were many small Government estates to be managed. If the Government of India were pleased to agree in this view, full report would, in the case of each settlement, be made regarding the percentage to be allowed and the purpose to which it should be devoted.

6. I am to summarise the points which have been submitted in this

letter thus:-

(1) It has been the custom in Bengal to leave temporarily settled Goveriment estates to farmers, or to make over their collection to telisildars, at a commission ranging from 10 to 20 per cent, on the revenue assessed upon the occupiers whose rents they were also permitted to enhance and increase for their own profit.

(2) The system is not in the long run a good one, for it separates the people from the Government officers, and makes over the ryots to speculators or persons who have no interest in the improvement of

the ryots.

(3) The tehsildaree system of other parts of India could be introduced with advantage to Government, to the ryots, and with economy to

the State.

(4) The best way of doing this will be to recognise these telesildarea establishments as provincial, and to make over to the local Government, after full report in each case, 10 per cent, on the gross assessment on the ryots, to be spent on tehsildarce and executive establishments, in connection with the scheme for sub-divisional establishments.

No. 571, dated Simla, the 14th July 1873.

Memo, by-C. J. Lyana, Esq., Offig. Under Secy, to the Govt. of India, Department of Agriculture, Revenue, and Commerce.

Cory forwarded to the Government of Bengal, with reference to its letter No. 5166, dated 6th December 1872, and with a request that the Government of India may be furnished with the tabular statement referred to in paragraph 3 of the Financial Resolution dated 30th ultimo.

No. 1350. GOVERNMENT OF INDIA.

FINANCIAL DEPARTMENT.

Simla, the 30th June 1873.

Resp the undermentioned papers relating to a proposal to substitute a paid agency for farmers of revenue in the temperarily-settled Government estates in Bongal :--

Paragraph 11 of the observations contained in Financial Resolution No. 652, dated 27th May 1878.

Letter from Covernment of Bengal to the Department of Agriculture, Revenue, and Commerce, No. 5166, dated 6th December 1872.

The Government of Bengal proposes to introduce the tehsildaree system, which obtains in other parts of India for the collection of revenue, in such temporarily-settled Government estates in Bengal as are at present either leased to farmers, or in which the duty of collecting the revenue is made over to tehsildars at a commission ranging from 10 to 20 per cent. deducted from the gross revenue paid by the occupiers; and with a view to carry out the proposal, the Government of Bengal requests that 10 per cent. of the gross assessment on the ryots may be allowed to be spent on the required tehsildaree establishments, they being recognised at the same time as provincial establishments.

2. The Governor-General in Council has already approved of the introduction of a paid agency, similar to that which is found by experience in other parts of India to be the best suited for the management of temporarily-settled districts, and is prepared to consider favorably proposals for an establishment of tehsildars and for allowances to beadmen in that class of Government estates in which a percentage has hitherto been allowed to farmers for management, provided the net revenue of such estates exceeds Rs. 1,000 a year, and provided the future expenditure on such establishments will not exceed in

the aggregate 10 per cent, of the gross revenue collections.

3. In order, however, to ascertain the financial results of the proposed arrangements, His Excellency in Council desires that a detailed tabular statement may be submitted, shewing for each estate to which the new scheme is to be applied, the establishments to be entertained, and the revenue which it will have to collect, as also the gross and net receipts, so far as may be possible, under the farming system.

4. His Excellency in Conneil observes that no deduction can be permitted from the gross revenue to form a finid or to be added to the provincial assignment. The proposed tehsildaree establishments should be treated as ordinary

imperial revenue establishments.

5. It is to be clearly understood that nothing in this resolution applies to the case of any estate not yielding more than Rs. 1,000 a year not revenue. A special addition has been made to the provincial assignment by resolution No. 2368, dated 10th April 1873, to cover the cost of collecting the revenue in such estates, and no further charge in respect to these small estates can now be admitted into the imperial accounts.

ORDER.—Ordered that a copy of the foregoing resolution be communicated to the Department of Agriculture, Revenue, and Commerce, for information and further orders; and to the Accountant-General, Bengal, for information and

guidance.

R. B. CHAPMAN, Secretary to the Govt. of India.

ACCOUNTS OF CHITTAGONG PORT FUND FOR THE YEAR 1872-73.

The following statement of the accounts of this port for the past year is published for general information:—

Bs. As. P.	D. 3. P			Es. As. P.	Ray Asy Pa
Balance at close of 1871-72 37,280 15	ICC. 70. 1 .	Port establishment	**	5,055 7 5	
Minery invested in promissory		Contingencies	-,-	2.704.10 0	7392 1 1
Port dues collected during the	B5,080 B4 3	Cost of stationers		31 7 2	r.: 44 ₆ 2 1 8
Multerkhall tolk collections during the year 444 4 8		Public works charges Prody and alances not reliaized	Lти	'	
Sale of charts 15 in 6		1871-72 Pension to late head cholo P	n-11"		
Street referred to Calcula 216 0 0		Office Refund of interest over creative			\$110.13 A
Interest on Government werts		Fank's assorat			311 IV G
	1,621 9 6	Balonce at the elect 1872-73 Money strices do no produc-			
		Holts		27.800 0 0	82,804 2 4
Etaguess .	96 16 1 0 9	եարտ -			96,162 0 8

EPIDEMIC FEVER IN MIDNAPORE.

No. 257, dated Burdwan, the 28th May 1873.

From-C. T. Buckland, Esq., Commissioner of the Burdwan Division, To-The Secretary to the Government of Bengal, Judicial Department.

WITH reference to your No. 5420 of 7th December, I have the honor to submit in original a report, No. 116, dated 9th instant, with its enclosure, from the Magistrate of Midnapore, regarding the prevalence of the epidemic fever in parts of the district of Midnapore. The enclosure is a map, which is well coloured, so as to show the different characters of the soil in different parts of the district, and to denote those parts to which the fever has extended its ravages.

- 2. Mr. Harrison's interesting report is so lengthy, and has been so long delayed, that I am unwilling to detain it, or to add to it unnecessarily. Mr. Harrison apologizes for the delay which has occurred, and attributes it chiefly to the late receipt of the report of Dr. Mathew, the Civil Surgeon, which he has now extensively incorporated in his letter. Dr. Mathew has entered at great length, and with much ability, into the history of the fever and its treatment, and other professional points, which will doubtless be duly considered by the higher authorities in the Medical Department.
- S. I have several times visited all that part of Midnapore where the fever has broken out. Mr. Harrison has well described the characteristic features of this tract, which are in some degree referable to the great lines

Ossye rivers. It must, however, be remembered that these Government embankments are an inheritance which the British Government received from its Hindoo and Mogul predecessors. Long before the British rule was extended to India these embankments were constructed, and gradually raised to a height which must have affected the level and drainage of the adjacent country. Under the British Government the engineers have endeavoured to strengthen and solidify these embankments, and to provide them with sluices, which however apparently seem still to be much in need of improvement. It must be also remembered that these embankments were in existence for more than a century before the first visitation of the epidemic fever to this part of the country.

- In the fever-stricken villages of Midnapore, such as Ghatal, Nemtolah, and the outskirts of Dasspore, which I visited this year, the people and their surrounding circumstances are as similar as possible to what I have so often seen in the fever-stricken villages of Hooghly and Burdwan during the last four years. Dr. Mathew has described in forcible language the filthy and unwholesome state of these villages, in which the stench is so disgustingly offensive, that the natives who live there and are insensible to it, must have their senses differently constituted from mine. When the people saw me in the villages they came flocking for help, and insisted on taking me to their houses to see their sick women and their afflicted children, and with a great desire that the latter might be touched, as if there might be some virtue in a touch. Although I usually took a Native Doctor with me with suitable medicines, the villagers were very anxious for my manipulation of their spleens, and for my advice, which I am glad to find was given correctly to the convalescents (to whom I fried to limit my practice), as I prescribed a milk diet, of which Dr. Mathew approves.
- 5. I regret to say that some of the Native Doctors, far removed from supervision, do not behave very creditably; but, as we have no one to substitute for these Native Doctors, we can only make the best of them. Dr. Mathew has reported correctly that I found it necessary to send out a head constable of police in charge of the Native Doctor at Ghatal, to see that he attended properly to the sick poor and did not attempt to take fees from them. The head constable was instructed to send to me special reports twice a week of his expeditions in charge of the Native Doctor, who, when thus strictly looked after, did some better service.
- 6. From the statement appended to the Magistrate's letter, it appears that from October 1872 to 31st March 1873, 24,007 persons were treated for fever, and only 236 died. I am afraid that these figures do not nearly represent the truth. Along the banks of the rivers, and on the edges of the villages, there were signs of many more funeral obsequies. But whatever the past may have been, it is for the future that provision must now be made, as there is too much reason to apprehend that the fever will make its re-appearance this year on the setting in of the rains.
- 7. The Magistrate and the Civil Surgeon have suggested that certain medical establishments should be placed at their disposal; but without criticising their proposals at present, I beg to suggest that it is for the Medical Department to give its opinion as to the necessity for employing them, and as to its ability to provide these establishments. I trust that even if only two or three Native Doctors are sent down to the fever tracts of Midnapore, as occasion requires, may be deputed to Ghatal to look after them,

and to see that they do their duty, and that they are well supplied with quinine and other medicines. I agree with Mr. Harrison that where the villagers agree to pay half the Native Doctor's salary, they should have a prior claim to the appointment of a Native Doctor.

- 8. If the Medical authorities do not object, I would recommend Mr. Harrison's proposals Nos. 4 to 8 to the favorable consideration of Government. The more co-operation that can be secured, the greater prospect there is of effective resistance being shown to the fever. A few pounds of quinine may be misused or made away with, but, on the other hand, many lives may be saved by its timely and fortunate use even in unskilled hands.
- 9. I regret to observe that Mr. Harrison, in his paragraph 36, is opposed to the compulsory clearance of jungle or tanks. I had understood that the districts of Kishnaghur and Baraset had obtained a comparative immunity from fever by the enforcement of sanitary measures of this description. When it is a question of life or death, the consideration of the public good should prevail over private interests. It is not possible that a native of this country should be more attached to his fifthy tank and sweltering jungle than an English farmer is to his recking daughill or his midden; but the farmer has been tanght that he must yield to the public good when the spread of typhus fever, or an alarm of cholera, occasionally arouses the British community to the necessity of enforcing the sanitary laws which happily exist, although they too often and too long lie dormant, in England.
- 10. Finally, I beg to invite the attention of Government to the favorable notice made by Mr. Harrison in paragraph 37 of the conduct of Rajah Jotendro Mohun Tagore, Baboo Ajoodhya Ram Khan, Baboo Lall Behary Dutt, and Baboo Janokee Nath Mookerjee.

No. 116, dated Midnapore, the 9th May 1873.

From-H. L. Harrison, Esq., Magistrate of Midnapore, To-The Commissioner of the Burdwan Division.

I have the honor to forward herewith the report on epidemic fever in Midnapore called for in your letter No. 70T of the 20th Describer.

- 2. The delay in its transmission is due to the fact that Dr. Mathew's report, on which it of course in great measure depends, was only received by me on the 21st April. As the whole of his report ought, I think, to be laid before you, and as it is fatiguing to travel twice over the same ground, I have, instead of sending a separate report, incorporated his integrally in this letter. I have in all cases made it apparent what paragraphs are his, so that he may not be held responsible for any opinions not his own.
- 3. My report has also been delayed by the necessity of preparing another map,—partly because I want to illustrate in it the physical divisions of the district stated below, partly because the map which Dr. Mathew was so good as to provide was so encumbered with names not needed for this report, and with separate colours for separate thannals, that it could not be utilized to convey melear impression of the sanitary features of the district.
- 4. To understand precisely the circumstances of the affected area, (1) its physical characteristics and (2) the comparative density of the population should be clearly realized. The first characteristic feature of the district is the laterite soil extending over the north-west and north of the district; this is of course the highest land, and as the country there almost uniformly consists of alternate ridges and depressions, the drainage is complete.

5. From this table-land, however, the district by no means slopes away regularly towards the south or south-east, as might be expected. Headed by the laterite near Midnapore town, a valley starts in an eastern or even northeastern direction towards the Roopnarayan river above Koilah Ghat, which at its eastern end embraces, relatively to the surrounding drainage, the lowest

land in the district, and almost absolutely the lowest.

6. It has long since been pointed out that owing to the embanking system, the rivers, when they once got into the low level plains of the delta, are no longer the depressions, but the elevations, of the country : hence it is the simple truth to say that this valley is bounded by the range of the Cossye river on the south, and that of the Selve on the north. A little above Panchkoorsh the Cossye, as is well known, was diverted some hundred years or more ago from its proper course, and carried southwards along what the people still call the Nya Kuttan, or new cut, by which it makes its way into the Huldee. Were it allowed to pursue the natural course which the levels of the country indicate, it would continue to be the boundary to this valley till it fell into the Roopnarayan above Koilah Ghat.

7. Almost opposite to this southward deflection of the Cossye the Selye turns in a north-western direction, and thus the valley opens out on both sides, embracing the whole of Pergunnali Chetooa (which is identical with Thannah Dasspore) on the north, and almost the whole of Pergunnah Kassijora

to the south.

S. Even here, however, singular as it may seem, the slope is rather towards the north-east than to the south-east; this will be understood in \blacksquare moment from the single fact that the tides reach above Ghatal on the Selye,

while they do not reach Panchkoorah on the Cossye.

9. It naturally follows that in the rains this valley becomes more or less a lagoon. Even at the longitude of Nowadah it has been found impossible to maintain a road across to the Selye or to Ghatal, important as such a road would be; while a little lower down, i.e. further east, notably in Pergunnah Chetoon and round Ghatal itself, the people do not look to the autumn for their crop, but have introduced a vast system of irrigation in the cold weather, which is only feasible on account of the extreme depression of their country.

- 10. Though the species of valley described is immediately bounded by the embankments of the Selve and Cossye, the general depression passes beyond these rivers and is found again on the other side. This is most conspicuously the case with the Selye, which forms a loop, the southernmost point of which is a mile north of Narajole. Within this loop the country lies very low up to the latitude of Keerpoy; while south of Nowadah the low-lying country extends along the line of the Kerai (a drainage khall over which the high level canal is carried by an aqueduct) down to Pinglah, and southwards till it mingles with the saline tract.
- 11. Dividing the district, as it may not inaccurately be divided, into (1) laterite, (2) alluvial but littoral and saliferous, (8) alluvial and nonlittoral, the latter may be regarded as forming a rough triangle the base of which is the Roopnarayan from Tumlook to Ghatal, and the apex the town of Midnapore-or, more accurately, a point some six miles south-west of it.
- 12. I next propose to show how the population of the district is distributed over these three areas.

The laterite thannabs arc-

- Carlo Company - After Angel Carlo	==	 	Aren.	Population.	Por square mile.
Becupore		 	 467	74,271	159
Jhargram		 	 169	45,560	269
Gopibullabpore	1.6	 	 516	120,810	288
Gurbettah		 	 487	145,264	382
Salboney		 	 207	50,660	248

		Bord	er thanna	he, i.e. lat	erite alluvia	i.	
Midnapore Keshpore					361 229	172,672 108,929	478 476
			Late	rite littori	al.		
Naraingurh		* *	+ 1		300	129,558	432
Minates				Littoral.			
Dantoor					217	112,372	515
Roghoonathpore	4.4			1	126	54,579	433
Contai		4.1			226	122,457	544
Egrah					122	57,598	470
Puttaspore		* *			117	81,123	093
Bhugwanpore					184	89,812	488
Kedgeree				1	75	36,003	480
Nundigram			* *	!	158	108,827	689
Sottahatta				* .	111	53,546	482
Muslundpore					111	61,158	578
			Litte	oral alluvio	d.		
Subbong					284	214,755	759
Fumlook					77	77,341	1,004
				Allurial.		·	1
Chunderkonah, tb	rce-for	nrths allu	vial		121	106,480	. 880
Shattal	• •				91	102,743	1,129
Овевроте				* * :	104	136,359	1,311
Debra					109	110,747	1,016
Panchkoorah					164	163,915	999

The above figures show conclusively that the density of the population closely follows the character of the soil. The purely laterite thannahs have a population varying from 159 to 332 per square mile, the purely littoral from 433 to 693, the purely alluvial from 880 to 1,311; this last being Dasspore, which, as already explained, is the pit of the alluvial section, while 880 is Chunderkonah, the northern portion of which is high ground branching off from the laterite and somewhat undulating, though not jungly or stony.

14. The mixed thannahs strictly conform to the same rule, the laterite littoral showing an average population of 432 to the square mile, laterite

alluvial of 477, littoral alluvial of 810.

15. Generally, therefore, the district may be classified into-

Laterite, with an area of 2,200 square miles and a population of 250 to the square mile.

Littoral, with an area of somewhat under 2,000 square miles and a population of 550 to the square mile, under which head I include all lands within 40 miles of the sea dyke.

Alluvial, with an area of 1,000 square miles and a population

of 1,150 to the square mile.

16. It is only into a portion—but the most alluvial and the most denselypopulated portion—of this latter section that the fever has yet spread; and if Dr. Mathew's account of its progress is carefully examined in the map, it will, I think, appear that though in many respects capricious in its action, it has not yet passed into any other tract, while it has deflected from its more natural

line of progression from Hooghly and Jehanabad westwards, and chosen a southerly and south-westerly direction, preferring the alluvial soil, and more

particularly the depressed valley in the centre of it.

17. It only remains to say that from the Cossye, as from a high level canal, natural channels, acting as distributarios, thread this valley between the two rivers; some of them joining the branches of the Selye, others serving as the streams for irrigating Dasspore in the cold weather. It has been frequently reported to Government on the irrigation side that in the cold weather the main branch of the Cossye is dammed up by a bund at Kapasdigree, in accordance with a prescriptive right of the zemindars, so as to conduct the water into these channels.

18. The natural drainage of this valley is north into the Solye through sluices, which, as Dr. Mathew states, are very defective, and west into

the Roopnarayan, also through sluices, not south into the Cossye.

19. With this preliminary description of the character of the soil and population, I now extract Dr. Mathew's account of the premonitory threatenings

of the epidemic previous to 1872.

(1.) Refore proceeding to describe the outbreak of epidemic fever that

Previous sanitary history of the "bas taken place in certain quarters of this district affords truct. "during the past year, I purpose to briefly allude to the health of the zillah, with reference to the prevalence of fever, during the

" period over which my residence extends.

(2.) "Shortly after my arrival here in August 1869, I heard that a fever, "closely resembling the epidemic which during that season was causing terrible loss of life in Burdwan, had made its appearance along the line of country lying between Chunderkonah and Ghatal (at that time portion of the Hooghly district), but the disease spread no further during that season, and the health of that portion of the Midnapore district bordering on the above-mentioned line of country was very fair during the autumn and cold season of 1869.

(3.) "During the months of August, September, and October 1870, "malarial fever was widely spread over the alluvial tracts of Midnapore. The "country bordering on Biooghly suffered in common with other localities, such

"as Tumlook and the country forming the sea-board.

(4.) "I visited Tumlook and the surrounding villages in the October of "that year, and found that the disease was nothing beyond an aggravation of "the fever usually attendant on the rainy season. It caused little or no "mortality, although numbers of those attacked suffered from enlargement of "the spleen and the other sequeiar of intermittent fever.

(5.) "On my return from Tumlook the police reported that fever was "very prevalent and fatal at Gurbettah and in the low-lying quarters of "Bogree Pergumah; and, dreading that the epidemic fever which had just then broken out at Jehanabad had advanced to Midnapore, I proceeded at once to "Gurbettah, and after visiting several large villages in Bogree, I travelled to

" Chatal vid Chunderkonah and Keerpoy.

(6.) "During the trip I saw many scattered cases of fever; but the type of the disease differed in no perceptible way from the disease I had seen at "Tumlook, and I accordingly reported to the Magistrate that there were no grounds for the alarming reports that had reached him regarding the state of the public health; and as the cold season advanced, those who had been attacked regained their usual health.

(7.) "No more was heard of the disease until October 1871, the police "then reporting that fever had broken out and was causing many deaths at a "place called Nowadah, a large village on the southern bank of the Cossye

"river, about 18 miles to the east of the sudder station.

(8.) "I visited the place early in November, and found that a fatal type of "intermittent and remittent fever had broken out some two months before, "and that out of a population of about 4,000 some 70 deaths had taken place.

(9.) "The surrounding villages, although subject to the same general manitary influences, were comparatively healthy, although I now believe

"that the disease was more widely spread and fatal during the latter months "of 1871 than was suspected at the time.

(10.) "I found two Native Doctors in practice in the place. They stated "that the disease was at its height during the latter part of September and "the first three weeks of October.

(11.) "They had seen several cases of malignant remittent fever, but "this was during the first outbreak; the type of the disease subsequently

changing to the intermittent with the usual sequelæ.

(12.) During the months of November and December the health of the " people improved; and when I visited the place early in the following January, "I found that no deaths from either fever or its results had taken place for several weeks, and that the people had lost in a great measure that unhealthy " and anæmic appearance which had characterized them two months before.

(13.) "Scattered cases of fever had occurred in the surrounding villages, " and I was inclined at the time to believe that their immunity from anything " like an epidemic invasion was due to the fact of their having a better water-" supply from the adjacent river than the people of Nowadah, who used for "drinking purposes the water of the filthy village tanks. A subsequent " paragraph will, however, tend to show how untenable the theory of the " fever-producing power of impure water was in this particular instance.

(14.) "About the end of November 1871 again the police reported that " fever had broken out along the line of country bordering on Hooghly, and "that it was raging with particular severity at Dasspore and the adjacent

" villages.

(15.) "I arrived at the Dasspore Thannah on the 3rd of December. " I found that malarial fever had been prevalent for the last two months, that umerous deaths had taken place both in Dasspore and surrounding villages, and the people one and all declared that the sickness and mortality was far "in excess of anything of which there was any record.

(16.) "During that trip I visited six large villages in Pergunnah

"Dasspore, and I afterwards proceeded along the Selve river to Ghatal.

(17.) "From inquiries instituted there and in the villages surrounding, "I came to the conclusion that the epidemic fever which had prevailed at " Jehanabad had advanced to the villages surrounding Ghatal, and was from "thence spreading along the river-banks to Dasapore.

(18.) "I was greatly struck on this occasion by the unequal incidence "of the disease,—not only in different villages, but in different houses in the " same village; some households suffering severely, while others, as far as could

"be judged, under precisely the same circumstances, escaped altogether.

(19.) "It is noteworthy that during the autumn of 1871 Tumlook"
Pergunnah and that quarter of the district forming the sea-board was " remarkably free from all forms of malarial disease, and the same remark " applies to the laterite country, which may be said to form roughly about " one-third of the area of the entire district."

20. It will appear from the foregoing account that the fever at first made a sort of attempt, such as it still continues to make, to extend in the natural direction westwards to Keerpoy, Chunderkonah, and Gurbettah,-the former alluvial, though high alluvial; the second on the edge of the laterite, though itself on alluvial soil; and the third in the middle of the laterite, though lowlying and surrounded by cultivation, -but that it failed to take any serious hold of those places, and then struck southwards into the low-lying, denselypopulated tracts of Dasspore.

21. Dr. Mathew thus continues the narrative for the year 1872 :--

(20.) "I now proceed to describe the outbreak History for 1873. " of epidemic fever of the autumn of 1872.

(21.) "During the first week in September the police reported that fever "had become very prevulent and fatal at Narajole and in several of the

"adjacent villages. ... (22.) "A glance at the accompanying maps shows the situation of Nara... " jole on the banks of a narrow stream which connects the Selyc and Cossye

"rivers. On the southern bank of this stream are situated the large and scattered villages of Bowaneepore, Herratollah, Patna, Singaghur, &c., and still further to the southward lies the large pergunnah of Sharpore; and attention is directed to these localities, as it was there the disease raged in a very deadly form from the very first. There are grounds for the belief that the disease had been very prevalent during the months of August, and E.B. The general prevalence of deagne fever much impeded in getting current information, as all the fever stricken place at first believed they make it is the attention of the authorities was "directed to the matter, or indeed that of the people residing in the locality.

(23.) "Before the end of October reports were received from the police "that malarial fever was rife and fatal within the jurisdictions of the Chunder- konah, Ghatal, Debra, and Dasspore police stations. Within the jurisdiction of the latter is the town of Narajole and the villages above alluded to.

(24.) "It will be thus observed, on referring to the map, that a consider"able tract of country was under the influence of the epidemic, but the
"incidence of the disease was irregular both as regards its prevalence and
"fatality.

(25.) "As a rule, the villages in which the greatest mortality took place "were those where the diseases prevailed during the previous years, i.e. the

" villages surrounding Ghatal, Dasspore, and its vicinity.

(26.) "An exception to this, however, is to be found in those villages "near Narajole where, as before mentioned, the disease was more prevalent "and deadly than in any other quarter of the district, and yet there in no "evidence to show that there was any unusual prevalence of sickness in these "places during the year 1871.

(27.) "It will be observed that the villages of Bowaneepore, Herratoliah, " &c., are separated from Narajole town and bazar by a narrow stream. There " was no very marked difference in the sanitary condition of those places. " Perhaps if anything Narajole is less cumbered by jungle and the houses " less crowded, yet the difference in the incidence of the disease is very marked.

(28.) "On the 7th of November 1872 I visited 22 houses in the village of Bowaneepore; two months previous to my visit they were occupied by 164 people, and of those 90 were ill at the time of my visit and 41 had died. In Narajole I visited 69 houses, and found they were occupied by 325 people, and of these 132 were ill and only 12 had died.

(29.) "Many other instances could be cited tending to show how cecentric the disease has been in its progress, and I will allude to one other.

(30.) "It will be remembered that the yillage of Nowadah suffered severely in 1871, and that during that season the smaller villages in its vicinity, on both banks of the Cossye river, suffered hardly at all; yet during the past season there was little or no sickness in Nowadah, but the surrounding villages had a severe visitation of fever.

(31.) "It is to be hoped that they may escape next year, and that the fever from which they suffered this year was only an aggravation of the disease usually attendant on the rainy season; but the persistence of the disease during the cold weather months, and the high rate of mortality, are suspicious; and, moreover, they lie in the track along which the disease appears to be advancing.

(32.) "It is a matter of no small difficulty to distinguish between the endemic fever in the early periods of its invasion and the aggravated malarial fever which now and then attacks particular villages, and which

" seems to depend on local sanitary influences.

(33.) "The inhabitants of a large village named Pingelah were very much alarmed during the past season on account of the prevalence of fever. "It is situated some eight miles to the southward of Debra, and is within the parisdiction of the Subbong Thannah. I visited the place early in December, and carefully inspected the village.

(34.) "The country between it and Debra seemed fairly healthy, yet on my arrival at Pingelah I found that the people had been suffering much." I

"saw many cases of fever, and some deaths had taken place; but even then the worst was over, and before the end of December the health of the people had much improved, the very time when the mortality in the epidemiestricken quarters was at its height.

(35.) "Ordinary malarial fever was widely spread over the district during the past season. The localities where it most prevailed will be seen by a reference to the map. The quarters of the district where there was no unusual prevalence of malarial disease is the laterite country and the country

" forming the sea-board.

(36.) "Tumlook, long regarded as the most unhealthy quarters of the district, was again healthy during the past season; and there is a popular saying amongst the natives, and on the whole a true one, that the only quarters of the district that escaped fever during the past season, were those where the soil is laterite and where the water is brackish."

22. Dr. Mathew's remarks, and still more his facts, so strongly support the position I have taken up, that the fever manifests a marked preference for, if it does not restrict itself to, low-lying non-littoral alluvial country, that it is but right to mention that he drew up his report without any consultation with mo on this point, and was quite unaware of the special line of argument

which I have followed.

23. My own observation of the course of the fever entirely supports what the Civil Surgeon has written, and it will be observed that it again failed to make serious progress towards Chunderkonah. This is the more remarkable because, as far as population alone is concerned, Keerpoy and Chunderkonah probably surpass any part of the district, except the sudder station of Midnapore, in density of population. Keerpoy, owing to the artificial arrangements of the chowkeydaree unions in its neighbourhood, is split into sections, and therefore does not figure high in the census; but the villages grouped round Chunderkonah form the second largest town in the district with an aggregate population of 22,000; and, so far as this cause and insanitation are concerned, it should have readily yielded to the fever. It escaped, however, as did Keerpoy, with moderate attack somewhat in excess of the ordinary malaria of the season, while the severe mortality, the traces of which struck one so painfully in passing through Dasspore and Narajole, was fortunately absent.

24. I am far from saying that Keerpoy and Chunderkonah will escape; they are only on relatively high ground, not on the laterite, and I fear that the fever showed some slight tendency to gain ground in 1872. All I contend for is that the epidemic seems to have experienced a marked check in this quarter, while it poured on in an unrestrained stream through Dasspore towards

pergunnalis Narajole and Shahpore.

Dr. Mathew continues-

(87.) "The physical aspect of the country where the epidemic fever physical aspect of the country." "prevailed presents no features that eall for very special mention."

(38.) "The affected line of country may be briefly described as a flat alluvial plain, formed of the combined deltas of the Cossye and Selve rivers, and intersected by numerous khalls, all of which are embanked. Connecting these rivers is the stream on which the town of Narajole stands, and to which

" allusion has already been made."

25. As the earlier portion of this report shows, I cannot agree with Dr. Mathew in his estimate of the non-peculiarity of the physical features of the affected tract. I think the north-cast slope of the country, and the very low level of Ghatal and Dasspore, as illustrated by the height of the tides, well worthy of careful attention; but I need not again revert to the subject.

He continues-

(89.) "During the rainy season the country is under rice cultivation and is protected from immedation by a complicated system of embankments or bunds.

(40.) "These bunds are a characteristic feature of this part of the country, "forming in many places the only high roads, and are no doubt of immense importance. I now allude to what are known as the Government embank-ments which follow the courses of the principal rivers.

(41.) "In addition to these are another series of ombankments known as " the zemindary bunds, and with reference to the utility of these structures

" some doubts in many instances seem to exist.

(42.) "It would appear that in former years each landholder made such " arrangements for protecting his land from inundation as seemed to him most " suitable, and running in almost every direction. These bunds certainly act as potent obstructors of the natural drainage of the country, and it is the Topinion of the engineer in charge of the irrigation works in this district that " many of them might be removed with considerable advantage.

(43.) "The Government embankments no doubt control the floods, and " their utility, as far as I know, has never been questioned; but there can be " very little doubt that they also obstruct the drainage of the country, and that

"to a very serious extent.

(44.) "The sluicing arrangements are lamentably deficient, and only allow surface water to flow off. They are much too few in number, and are, moreover, faulty in construction; their floors are in many instances above the level of the country, so that their utility for drainage purposes " may well be questioned.

(45.) "I am given to understand that estimates for repairing and "constructing no less than 60 sluices on one embankment alone have been " prepared; and with a system of bunds that stand in need of such all-important alterations, I think it may be assumed that the surface drainage of the

" country is obstructed and the subsoil water-logged.

(40.) "The land lying between the embankment and the river-banks is considerably higher than the country surrounding, and the deposition of silt in seasons of flood is, I suppose, the chief cause of this. In many parts " of the district the mulberry is extensively cultivated along the river-banks, " and, owing to the fertilizing influences of the river, thrives well."

26. To the above description I have little to add and nothing to find fault with, unless it be the tenderness with which the Government embankments are treated. The river-beds having been raised by the constant deposit of silt, to abanden these embankments now would no doubt involve enormous tracts in total rain; but it was this system of embanking which has deprived the country of its natural increment of deposit and kept it permanently depressed, while its drainage channels have gradually become irrigation channels, its waterways choked up, and the whole area water-logged.

27. As regards the state of villages Dr. Mathew writes:-

(47.) "With the exception of some scattered mange topes, there is "nothing like forest land in the affected quarters of the district, and but little " jungle except in the immediate neighbourhood " of the villages, which are surrounded by hamboo, " plantain trees, &c., and during the rainy season there is in addition a

" considerable quantity of useless undergrowth. (48.) "The sanitary condition of the villages, it is needless to say, is " deplorably bad in every respect. Buried in jungle, studded with filthy tanks,

"houses crowded together and surrounded by all kinds of filth, are the most common characteristics of the villages of the district.

(49.) "The water-supply is contaminated and the atmosphere laden "with the gaseous products of rotting vegetation and the exercts of the "inhabitants. This description applies with equal truth to villages where the I fever manifested itself in its most fatal form, and where scarcely a case "occurred. Every village that I have ever visited is pervaded by odours " more or less offensive.

(50.) "Utterly regardless of every law that conduces to health, the "villagers remain on year after year surrounded by all those off-described " sources of nuisance with which we are only too familiar : and that the people " not only live in such places, but increase and multiply into the bargain, is " a pretty clear proof that stench per se will not cause disease, and that its

"deleterious effects on health bear no proportion to its offensiveness.

(51.) "With reference to the people and their People and occupation. circumstances, I have not much to remark.

"Comparatively they are fairly housed, particularly in the larger (52,) villages.

(53.) "The better class of habitations are well raised, usually some three "feet. The arrangement usually seen is a central court with a narrow " verandah running round all four sides, off which the rooms open, and which, " as a rule, are only lighted and ventilated by the door-way. The houses are

"kept clean, and the rooms and verandahs are regularly leeped.

(54.) "The poorer classes live in small huts about 14×10, greatest height about 12 feet. These structures are lighted and ventilated by the

"door-way.

(55.) "There is sometimes a narrow verandah in front, on which the

"residents sleep during the hot season.

(56.) "With regard to the circumstances of the people, I believe them to be moderately good. Since the year 1866 there has been no scarcity of " food in the district, and there are no grounds for the belief that in the " quarters of the zillah where fever prevailed the condition of the people in " this respect has undergone change during the past three years.

(57.) From sanitary point of view, however, it may be assumed that the habits of the people and many of their customs, the air they breathe, the water they drink, and the food they eat, are all opposed to the attainment of health or vigor; and the only wonder is that they possess either one or the other

to the limited extent they do.

N.B.—No figures were given in the cargin, but I have folly analyzed in the opening part of the report the incidence of the population.

(58.) "In the Midnapore district at large the population is irregularly distributed. I note in the "margin its incidence to the square mile in the " perguinalis in which the fever prevailed

(59.) " At Kecrpoy, within the jurisdiction of the Chunderkonah Thannah, "the population is particularly dense. Indeed at Keerpoy village succeeds " village for nearly three miles with hardly a break, it being a matter of diffi-" culty for the visitor to determine where one commences and the other ends."

28. Agreeing as I do entirely with all that is here written, I have little to add to it. The description given by Dr. Mathew applies, as is well known, to all the alluvial tracts in Bengal where the drainage is choked up and the population overgrown. But if the most populated, it is also the wealthiest part of the district: whether tested by its crops, its wealth, its schools, or its castes, it ranks first. It is here that the only jute grown in the district is found; sugar-cane is grown in abundance. Nowadah is the great emporium of gour in the district. Ghatal, again, is the wealthiest town in the district next to Midnapore; all the traffic of the northern section passes through it. A toll at its entrance, on a very bad cutcha road, lets for over Rs. 4,000 a year. Again, the patshalas that have come in under the new scheme in this neighbourhood outnumber those in the littoral tract as 3 to 1, and in the laterite as 10 to 1. Here too the Brahmins and Kaests of the district are to be found, and the "bhodrotok" are so numerous that I have heard it said, with reference to this fever, "it is better to die in Dasspore than to live in one of the junglo melials."

29. As regards the character of the fover, Dr. Mathew writes:-

(60.) "So much has already been written on this subject by the able " and experienced officers who have watched the progress of the disease in other districts, that it seems hardly incressary for me to dwell here at any e length on the subject. It is a malarious fever, the intermittent being the type by far the most commonly met with. In the early periods of its invasion remittent cases are sometimes encountered, many of which end fatally. The attack sometimes commences with violent vomiting and purging, * the motions being profuse and watery; great prostration rapidly supervenes, " almost amounting to collapse.

(61.) "Reaction is characterized by great heat of body with determi-" nation to the head. A not uncommon complication of this fever is pneumonia, on the supervention of which the fever assumes continued character, typhold symptoms manifest themselves, and unless the complication be

promptly treated, it rapidly leads to a fatal termination.

(62.) "Intermittent fever and its sequelæ is the type of the disease most

" frequently met with.

(63.) "The rapidity with which the abdominal organs become involved seems one of its most striking characteristics. Rapid emaciation, digestive power lost or much impaired, endema of the lower extremities, with marked pallor of the mucus surfaces, are the symptoms which attend all the more severe cases.

(64.) "The supervention of dysentery and diarrhosa is not unfrequent,

" and in many chronic cases scorbutic symptoms are very manifest.

(65.) "The epidemic fever has the following characteristics:—its severity over a large tract of country, as shown by the large proportion of the population attacked; the rapidity and certainty with which internal organs become involved; the tendency to, and frequency of, relapse, and marked emaciation with which the disease is attended; the excessive mortality, and its persistence and increased fatality as the cold season advances.

(66.) "On this subject officers who have had much experience of the

"disease are on the whole pretty well agreed.
"Quinine stands first in estimation, especially in
the early stages of the disease. In remittent fever it is usual to wait for

"the early stages of the disease. In remittent fever it is usual to wait for the stage of remission before administering the antiperiodic; but it appears to me there are other stages of this disease in which quinine can be administered with signal advantage, and where it would not be judicious to delay its administration pending the action of purgatives and other remedies.

(67.) "However, in ordinary cases of fever, when there is much bilious derangement, with nausea, &c., purgatives and disphoretics are generally called for, and the action of quinine seems to be rendered more certain and

" rapid by their use.

(68.) "I think it was Sir Raneld Martin who praised so much a powder composed of jalap, calomel, and tartar emetic. Two grains of the latter is "the dose he advocates in the treatment of the fever of natives. I saw few cases during the past two years to whom I would have administered a "dose of the kind, for it is unfortunately the case that the people of this district "do not apply for treatment until the time for such remedies has passed.

(69.) "It is, however, chronic fever and its sequelæ that we are called upon most frequently to treat. To deal successfully with these cases appears to me one of the most perplexing and difficult task a medical officer can

" undertake.

(70.) "The condition of such patients is truly deplorable, and calculated to arouse our liveliest pity. It is probable that if advised, and medicine were placed within the reach of these people when first attacked, a vast amount of suffering and disease would be prevented.

(71.) "When once the extremities become dropsical, with enlargement "of the liver and spleen, remedies such as we can place within the reach of a

" vast proportion of the sufferers are of little avail."

(72.) "The stomach appears to me to participate more fully than is "usually recognised in the general degeneration the tissues are involved in; "and without for a moment denying the immense importance of nutritious "food in the treatment of such cases, yet I am disposed to think that more benefit would be derived from it in the early stages of the disease before the "digestive powers had become impaired.

"digestive powers had become impaired.

(73.) "There is, however, one article of diet that I would like to see given to these people, and that is good milk. In a great number of cases there is bowel disorder of some kind or other, and the late Dr. Fawcus placed treat reliance on milk dietary in such cases, giving but little medicine.

"great reliance on milk dietary in such cases, giving but little medicine.

(74.) "I would feel disposed to follow his advice to a certain extent,
should it ever become any duty to superintend relief operations on an
extended scale for this class of people. I should certainly prefer it to meat
in any shape,—an article of diet to which the poor of this district are utterly
unaccustomed, and which, particularly when sick, they are not likely to
digest.

"With reference to the treatment of chronic fever and its results, - the salts of iron, combined with the mineral acids, are the class of remedies " which seemed to answer best. For cases of fever where enlargement of the " spleen only exists, quinine with large doses of sulphuric acid are remedies "which often succeed; counter-irritation over the region of the spleen, with a weak preparation of the biniodide of mercury ointment in recent cases of " fever, when no marked evidence of blood deterioration exists, is a remedy of " great power.

(76.) "Dr. Maclean of the Victoria Hospital, Netley, come time ago " directed the attention of the profession to the use of these continents in cases " of splenic hypertrophy, and as far as my experience goes it seems to be well " worthy of the praises bestowed on it by that officer. In cases where marked " pallor of the mucus surfaces exists, as in old cases of fever, this remedy does "not seem to answer, its application being frequently followed by profuse

" salivation.

30. On these two points I need make no comments.

(77.) "Early in September the Magistrate called my attention to the Steps taken to relieve the sick " prevalence of fever at Narajole and the meigh-"bouring villages. The police also about the same " time reported that the disease had broken out at Shahpore and other places within the jurisdiction of the Dehra police station. With the concurrence of Mr. Price, the Settlement Officer, the Native Doctor in charge of the survey " party, who was then unemployed in the station, was ordered to proceed at "once to Narajole with the necessary medicines. This officer showed a marked " disinclination to undertake the duty. He had not done an hour's work during "the two previous months, and seemed much surprised at being ordered to " exert himself in any way.

(78.) "When informed that his services were temporarily placed at my "disposal, he appealed to Mr. Price and eventually reported himself id. After " a week's delay he proceeded to Narajole, and although I did not expect that " much assistance would be rendered by so unwilling a subordinate, yet it is due " to the man to ray that subsequently he worked well and willingly, and rendered "good service at Narajole and the adjacent villages.

(79.) "In the meantime I proceeded to Debra, and from thence to " Panchkooral, travelling through the densely-populated tract of country lying

"between the high road to Calcutta and the Cossyc river.

(80.) "On my return to Midnapore, with the concurrence of the Magistrate, "the Native Doctor in charge of the police hospital was ordered to Shahpore, "where I learned that fever prevailed to a serious extent. He was stationed "about six miles to the north of the Debra police station. After a short time "reports reached me that he was not going on well. The people complained "that he would only attend those who were in a position to pay him, and that "he was in fact dishonestly disposing of the medicine that had been placed in 44 his hands.

(81.) "I would have recalled the man, but unfortunately his services "could not then be well dispensed with. Notwithstanding warnings, both "written and verbal, he at length committed himself to such an extent that "he was subsequently convicted before the Joint-Magistrate of cheating and

"sentenced to six months' imprisonment and fined Rs. 100.

(82.) "Meanwhile the Magistrate had established a temporary dispensary "at Narajole. A Native Doctor, named Kissen Sing, was appointed to the charge "of it, and on his arrival from Calcutta, and pending the completion of the "cutcha dispensary building at Narajole, he was ordered to Dasspore, where " fever then had broken out and was causing a heavy mortality.

(83.) "On my visiting Dasspore, a week after his appointment, I found "him prostrated with fever. He was subsequently transferred to Narajole, and

" remained in charge of the dispensary until the end of February.

(84) "The Deputy Inspector-General of Hospitals sent two Native Doctors from the Presidency. One of these was at once sent to Dasspore to relieve Kissen Sing, and the other was deputed to assist the Native Doctor

"belonging to the survey party who was stationed at Bowaneepore and the other villages near Narajole, to which allusion has already been made.

(85.) "The urgent calls for medical assistance from other districts hardly left a man at the disposal of the Doputy Inspector-General, and I consequently sent an experienced and intelligent compounder to treat the sick at a village called Bulliarpore, about one mile from the Dasspore police station. This man and the Native Doctor stationed at Dasspore did fair service. The Magistrate when visiting Dasspore found them fully employed, and they seemed to have gained to a great extent the confidence of the people.

(86.) "When I visited Ghatal, I ordered the Native Doctor in charge of the dispensary to visit regularly the surrounding villages and prescribe for the sick. "He, however, allowed his supply of medicine to become exhausted, never intimating the fact to me; and when the Commissioner visited Ghatal, early in December, he found that the Native Doctor was neglecting his duty, and had never visited a single village. My orders with regard to visiting the villages were recorded in the Visitors' Book, and as far as I know the Native Doctor had not the shadow of an excuse to offer for deliberately ignoring my

"instruction.
(87.) "Mr. Buckland, rightly conceiving that the man could not be trusted, deputed a constable to escort him daily to the affected villages; and when I visited Ghatal, in January, I found the Native Doctor distributing

" medicine to a large crowd in a village about a mile from Ghatal.

(88.) "The disestablishment of the Kissengunge charitable dispensary N.R.—An aided dispensary mear "placed the services of another Native Doctor at Tambok in the littoral tract." "our disposal. He was first deputed to treat the "sick in the villages near Debra, and afterwards was ordered to Bowancepore" and the other villages near Narajole, to replace the Native Doctor belonging to the survey party, whose services were again required by the Settlement "Officer.

(89.) "The subjoined return shows the number treated up to the 31st "March.

(90.) "These figures give but a very inadequate idea of the actual amount

" of sickness and the mortality that resulted.

(91.) "It is abundantly clear that the people of the district have not much confidence in the European system of treatment, especially when administered by their own countrymen, except in localities where dispensaries have been working for some years.

(92.) "Koberajes, a numerous and influential class, still hold their ground "in the mofussil, and I found a large proportion of the sufferers under their treatment. When a villager is attacked by fever the koberaj is sent for, and it "is only after he has failed, or when the resources of the patient are exhausted.

" that the Government Native Doctor is applied to.

(93.) "Another individual, no less active in his opposition to the system "of gratuitous medical relief, is the wandering compounder. During the past "six months I have frequently encountered this class of practitioners in the

" villages I visited.

(94.) "His qualifications are limited. He generally knows the doses of drugs and how to prepare them, and that is about all. He generally introduces himself as a Native Doctor who has abandoned Government service.
His supply of drugs are limited and are of dubious quality. He undertakes the cure of the prevailing disease for a certain fixed sum, a portion of which is paid in advance. The length of his stay is regulated by the amount of practice he succeeds in obtaining and the emolument therefrom resulting.

(95.) "Doubt seems to exist as to whether these men should be opposed or encouraged; I think the former. In the course of years, as duly qualified men seek for practice in the mofussil, the compounders will disappear; but in the meantime they victimise the simple villagers, and bring discredit on

" the medical profession."

31. I do not entirely concur in these opinions; but as I do not want unnecessarily to increase the length of this already bulky report. I will content

myself with remarking that the experience which the people of the country have had of Native Doctors is not so very gratifying that we need be surprised at their being somewhat slow to place confidence in them. It will, I think, be found that if a Native Doctor be located in a place and behaves himself creditably, he will within a month command the entire confidence of the inhabitants.

32. I now pass on to the last and most important question, viz. what arrangements should be made to deal with the epidemic in its future ravages,

which may be only too confidently anticipated.

33. On this subject Dr. Mathew's proposals are as follow :-

(96.) "The experience gained in other districts, and indeed in Midnapore, "also leads us to the belief that as the rainy and autumn months approach, a fresh outbreak of the epidemic may be expected along the tract of country where it prevailed

" in 1872.

(97.) "One fact that ought to be borne in mind is that assistance to be effectual must be rendered in time, and precautions should be taken so as to ensure that the first appearance of the disease in the affected quarters should be brought promptly to notice, and remedies placed within the reach of the sick in the early stages of the disease. The leading native gentlemen residing in the fever-stricken quarters should be asked to interest themselves in the matter and bring to the notice of the Magistrate exceptional sickness, should any occur, and not wait until the village chowkeydar considers it necessary to take action in the matter.

(98.) "The Magistrate will probably bring to the notice of Government the few native gentlemen that extended a helping hand to their suffering countrymen and dependants during the past season; but as far as could be judged, the spathy and want of sympathy displayed by the vast majority

" was most marked and disheartening.

(99.) "It is clear that the poor of this district will have to rely solely on "Government for any assistance they may require; and to what amount that assistance can be rendered, must necessarily depend on the extent medical aid

will be required in other districts.

(100.) "Temporary dispensaries should be opened at Chunderkonah and "Keerpoy, and to each dispensary two Native Doctors should be attached. "One of these should be constantly on the move, while the other should remain at the dispensary to treat those who may come for treatment, as well as the sick in the adjoining villages.

(101.) "A definite area should be allotted to each dispensary, and "weekly returns demanded, showing the number treated, died, &c., and the quantity of quinine expended. There is already a dispensary at Ghatal, and

"to that a travelling Native Doctor should also be attached.

(102.) "Dasspore Pergunnah requires at the very least two dispensaries "and four Native Doctors; Narajole, one dispensary for the town and two "Native Doctors; and for the line of country between Narajole and the Debra "Thannah, three dispensaries with six Native Doctors

"Thannah, three dispensaries with six Native Doctors.

(103.) "A special Superintendent should be appointed to superintend
"the working of the dispensaries and the proceedings of the Native Doctors.

(104.) "His supervision to be effectual must be constant, and his visits

"unexpected by his subordinates. The orders laid down debarring Native Doctors on special duty of this kind from taking fees should be rigidly enforced, and on no account should a Native Doctor be allowed to take money, no matter what the position of his patient may be.

(105.) "In a previous paragraph I alluded to the sanitary condition of the villages, and I have no doubt, were it practicable to free them from the jungle by which they are cumbered and improve the water-supply, consider-

" able benefit would result.

(106.) "Dr. Elliot has pointed out forcibly and clearly what should be done in this direction, and it is greatly to be regretted that no means of effectually carrying out the measures he advocates appear to be available, and consequently the utility of further alluding to the subject here appears doubtful."

34. It will be seen that Dr. Mathew applies for nine dispensaries and eighteen Native Doctors; two attached to each dispensary, one to travel, and the other to treat the dispensary patients. He also applies for a Superintendent, by which he means, I understand, an officer of the rank of Sub-Assistant Surgeon to supervise the Native Doctors. So far Lentirely concur: it is obvious that the more Native Doctors the Government can spare, the more effectually we can combat the ravages of the fever.

35. Assuming, however, that so large a supply will not be available, at any rate, until it is actually proved that the district is very severely attacked,

I would ask sanction to the following proposals:-

(1) That the Civil Surgeon and myself may have the disposal of two complete dispensaries and four Native Doctors, entirely supplied by Government, to locate wherever we think they are most needed and the people least able to help themselves.

(2) That a Native Doctor and medicines be sent to any place within the affected area where the inhabitants agree to pay half the Doctor's salary. This the people of the villages opposite Narajole have already spontaneously offered to do on hearing that the Doctor was likely to be withdrawn.

(3) That quinine be entrusted to the gentlemen named by the British Indian Association in their letter of the 7th November 1872 :-

1. Moddon Mohun Singh,

2. Bholanath Roy,

3. Radhakaut Ghosal,

4. Jogessar Pahary,

Nobin Chunder Haldar,

6. Snibnaram Ghuttuck,

7. Koylash Chunder Mookerjee,

S. Ram Coomar Gangooly,

9. Puttit Pabon Pattra,

Seeful Persad Chowdry,
 Mehur Chunder Roy,

12. Kristo Komel Masunto,

with simple instructions for its administration. They have all agreed to distribute it.

That a supply of quinine be placed for sale at each police station and outpost at 10 per cent, below cost price, and a discretionary power be given to the officer in charge to administer it gratis to any poor patients, keeping a list of the names and amounts.

(5) That to every schoolmaster and patshala guru in connection with Government a certain quantity of quinine be given for the use of himself and his pupils. Schools and patshalas are particularly numerous in this part of the district. Over 200 patshalas have accepted connection with Government on the terms offered recently, and there are some 20 or 25 schools. I would propose to make a fixed allowance to each guru-say an ounce, if this would not be too liberal-and let him know that the supply would not be repeated. I would then give him to understand that if he found that it was not all needed for himself and his pupils, he might give it in charity to other indigent sufferers, and I would instruct him how to do so.

No doubt many of the gurus would sell it, as do the Native Doctors and every body who can get the command of so valuable an article; but after all, even if sold, it will entail no greater cost on Government, while it will dissem nate pure quinine where it is most needed. On the other hand, it will invest the gurus with some importance in their villages, -- an object which I look on as desirable in itself. I would, however, expressly prohibit them from selling it while authorising them to give it away, and make this prohibition and permission generally known. One cannot but hope that if that be done, partly through fear, partly through honesty, a good deal will be gratuitously distributed where it is most needed.

I do not propose to give this to all gurus in the affected area, whether the fever be in their neighbourhood or not, but only to those who are in places that are attacked.

(6) I submit that instead of opposing, we should endeavour to utilise, the services of all duly qualified private practitioners. Hitherto I do not think I am wrong in saying that the practical attitude

of the Government and the department in the interior is one of hostility. The private practitioner is struggling probably to make a practice. When a dispensary is (as for instance at Hajecpore) planted exactly opposite his door, he is of course under-sold; and just when he might most hope to make his way, he finds the ground cut from under his feet. This is the way he practically realizes the encouragement he often listened to in Calcutta about starting on his own merits and avoiding the error of his fellow students in

looking exclusively to Government for employment.

I do not deny that as a whole this class are selfish—as they have to live by their profession it can hardly be otherwise, and that they are in great measure strangers to that sympathy for suffering among the poor which so honorably distinguishes the profession in parts of Europe; but I think they deserve encouragement, and would offer each duly licensed practitioner a certain quantity of quinine (say 4 oz. or 8 oz., or even 1 lb, if the fever in his neighbourhood is very bad) on condition that he would, as far as it went, distribute it gratis among poor sufferers. These practitioners would I believe accept, and if they sold some, they would probably also distribute a good deal gratuitously. We know of four such licensed practitioners within the affected area-one at Chunderkonah, one at Ghatal, and two at Nowadah.

(7.) I would, in every village of 500 persons and upwards attacked by the fever, appoint a punchayet of three or more persons to superintend the distribution of quinine in their village in the manner above described, to report every week the state of the fever, number of deaths, &c., and bring to notice any delinquencies or shortcomings on the part of those entrusted with quinine. In each such village there will probably be at least one guru: where there is not, one of the members of the punchayet might be entrusted with quinine. In the townships of Chatal and Chunderkonah, and the unions of

Keerpoy and Ramjebunpore, the town committees should be selected.

(S.) The directions as to the use of quinine, and the cases where it can safely be given, should be printed, and a copy given to every one who receives any for distribution. I need scarcely say that if a Sub-Assistant Surgeon can be spared to superintend the operations in this district, it will be most

conducive towards effectual supervision.

36. I ought not to omit to say, with reference to Dr. Mathew's paragraphs 105 and 106, that I carnestly protest against any attempt to clear away jungle or clean out tanks compulsorily in the affected villages. I saw a great deal of these measures when at Baraset, and afterwards at Krishnaghur, when these two places were both under the influence of the epidemic, and un convinced that they lead to a great deal of oppression, destruction of valuable property, expense, and no corresponding benefit. If done thoroughly, they might lead to good results; but to do this it would be necessary to spend thousands of rupees in each village.

37. The gentlemen who assisted this year in the relief of the distress

1. Rajah Jotendro Mohun Tagore, who sent a Native Doctor to Kootabpore, though without placing him on rapport with the authorities or communi-

cating the fact to us.

2. Baboo Ajoodhya Ram Khan, commonly called Rajah of Midnapore, whose residence is at Narajole. This gentleman supported a private dispensary of lis own at his house, and also paid towards a Government dispensary in another part of the town.

3. Baboo Lad Bebary Data of Chinsurah, who sent me Rs. 100 towards

the relief of the indigent.

4. Baboo Janokee Nath Mookerjee of Boinchee, who sent me Rs. 40 for the relief of the indigent.

33. Dr. Mathew concludes his report with the subject of causation as follows :-

(107.) "On this subject I have but few observations to offer. The disease is due to the action of a poison which Causation. we call malaria for want of a better name.

- (108.) "Notwithstanding however the many, and indeed probable, causes "that have from time to time been discussed as tending to produce the epidemic, it appears to me that their disease-producing powers have always been admitted, and it is certainly very clear that all these conditions which are said to produce this epidemic have existed for many years without producting any other effect on the public health except those periodic outbreaks of fever with which every European resident in Bengal is familiar, and from which every native of the country suffers at some time or other. The appearance of the disease in the laterite tracts of Beerbhoom clearly shows that a water-logged subsoil is not a necessary condition for its propagation.
- (169.) "The epidemic fever, as far as I know, has not as yet made its "appearance in any village in this district built on laterite soil, nor does the "disease appear to be advancing in the direction of the laterite country. I "regard it as an advance of the Hooghly epidemic; but by what means the "disease has been introduced I am not prepared to say. The disease is not "spread by human intercourse, otherwise the station of Midnapore would "have been the scene of an outbreak any time since 1869.
- (110.) "Many people suffering from the epidemic fever of Hooghly and "Burdwan have come to Midnapore and never introduced the disease into the "town. During the past cold weather numbers of people from Dasspore and "Ghatal were treated at the charitable dispensary, many of whom are at "present living in the town, yet no outbreak of the epidemic fever has "occurred.
- (111.) "Residence in an affected locality, no matter the condition of life, "gives rise to the disease, and that with a certainty that few people, no matter how strongly they may deny the presence of a specific poison, would like "to test in their own persons.
- (112.) "I know of two instances of native gentlemen occupying influen"tial and lucrative positions in this district visiting their homes in Burdwan
 "in perfect health and their contracting an attack of the prevailing fever, of
 "which they both died in the course of a few months.
- (113.) "In conclusion I have to apologise for the great delay that has "taken place in submitting the report. The accompanying map is, I fear, "inaccurate in many respects; but it is the only one that it was possible to procure, and it is to be hoped that it will suffice to illustrate roughly the line of country affected by the epidemic. But owing to the irregularity in the incidence of the disease, to show that with anything like accuracy on a map, would be a matter of great difficulty, and would still further delay the submission of this report."
- 39. I need only add that all the facts in this district favor the prevailing opinion that the epidemic is due to a concurrence of causes partly known, partly unknown. It finds a congenial home in a depressed and water-logged country, a dense population, and all the insanitary surroundings which a dense population entails. On the other hand, it seems equally clear that it has a virus of its own independent of these causes, which may poison the air of a perfectly dry and sparsely populated tract. As in the case of cholera, it is easy to see that certain conditions predispose places for its ravages, but unsafe to say that those conditions circumscribe its operations. The theory favoured by Colonel Haig is, it seems, obviously true so far as that an enfectled vitality due to poor and insufficient food, bad water, and impure air, render those attacked with the fever far less capable of resisting its attacks than they would be if possessed of greater strength of constitution; but conspicuously wrong in so far as it seems to contend that the morbific influences to which they are exposed have undergone no change, but remain the same in the affected tracts as they always were, while only the power of resisting them is weakened. That the air is positively tainted or poisoned, any one residing in it for a few days can easily ascertain; while a perfectly healthy and well-fed man transferred to an affected locality is attacked with the fever almost immediately.